

FIG. 2

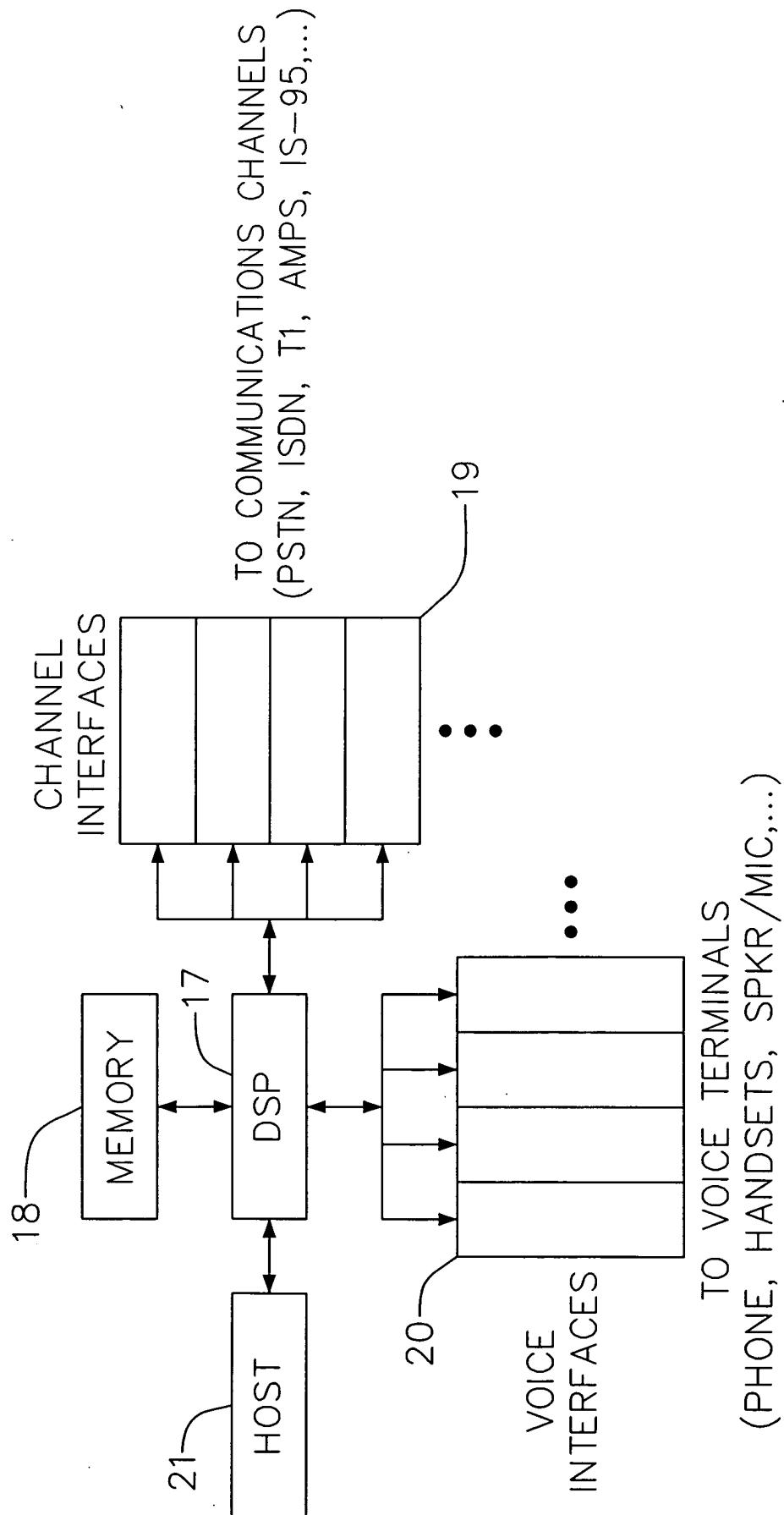


FIG. 3

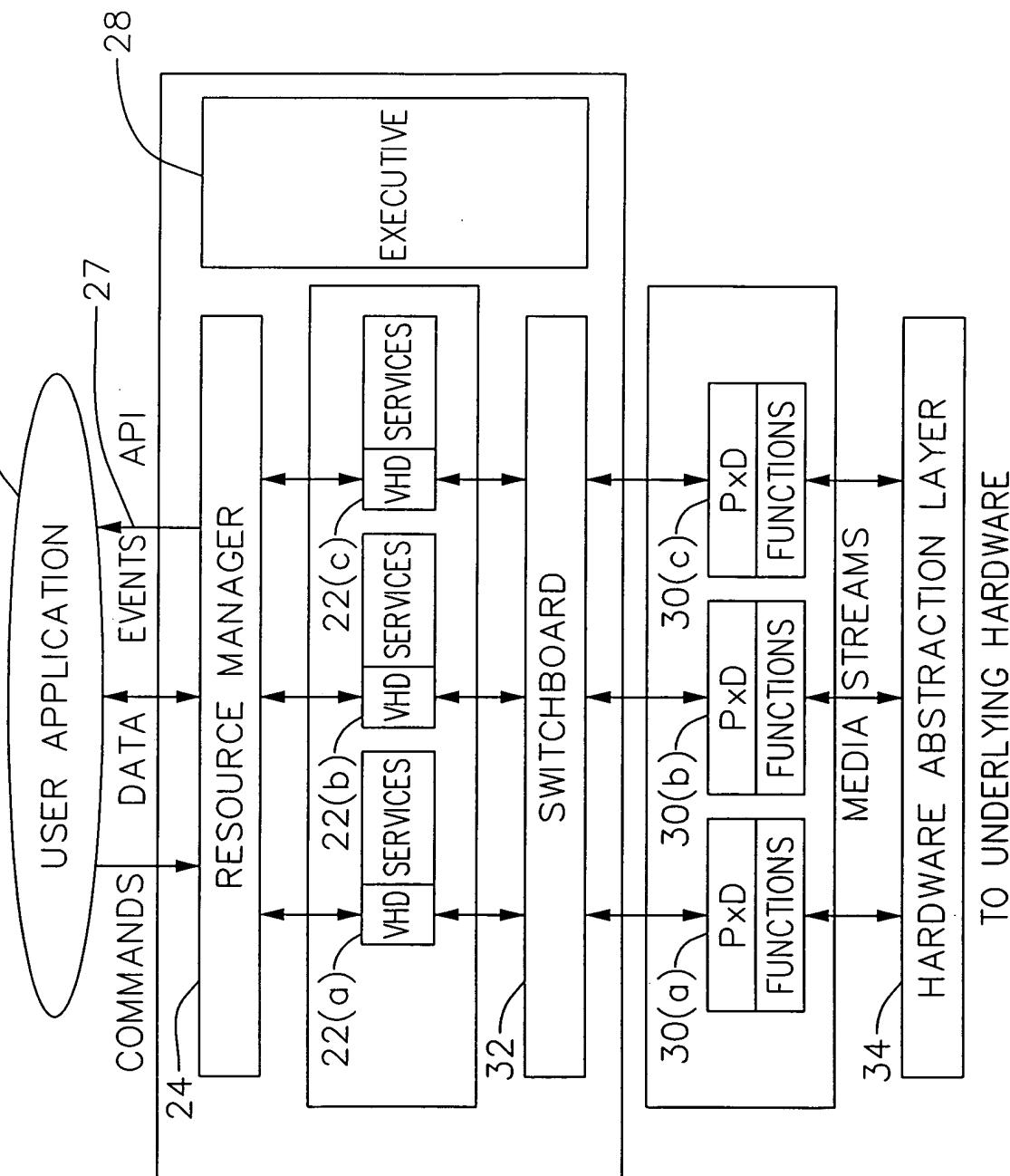
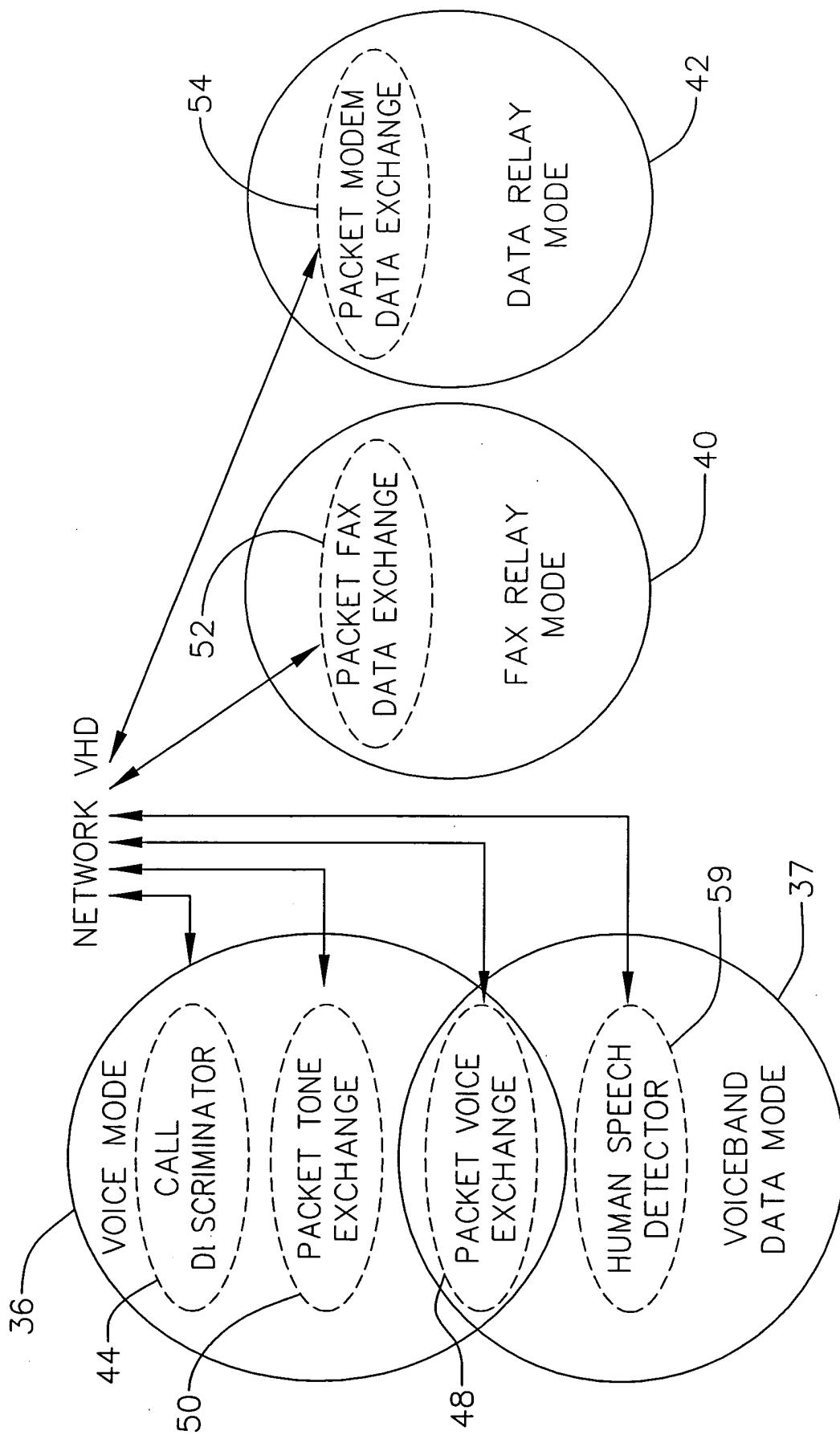


FIG. 4



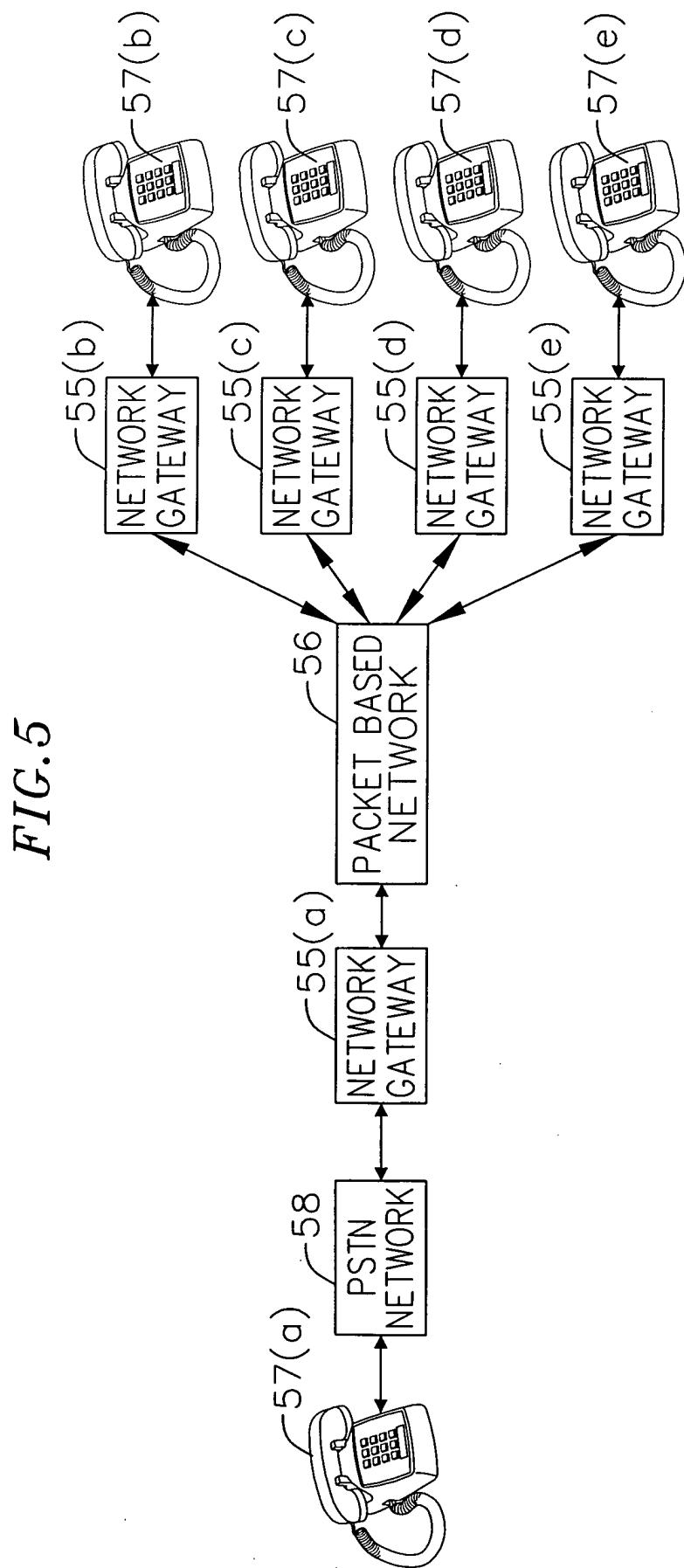


FIG. 6

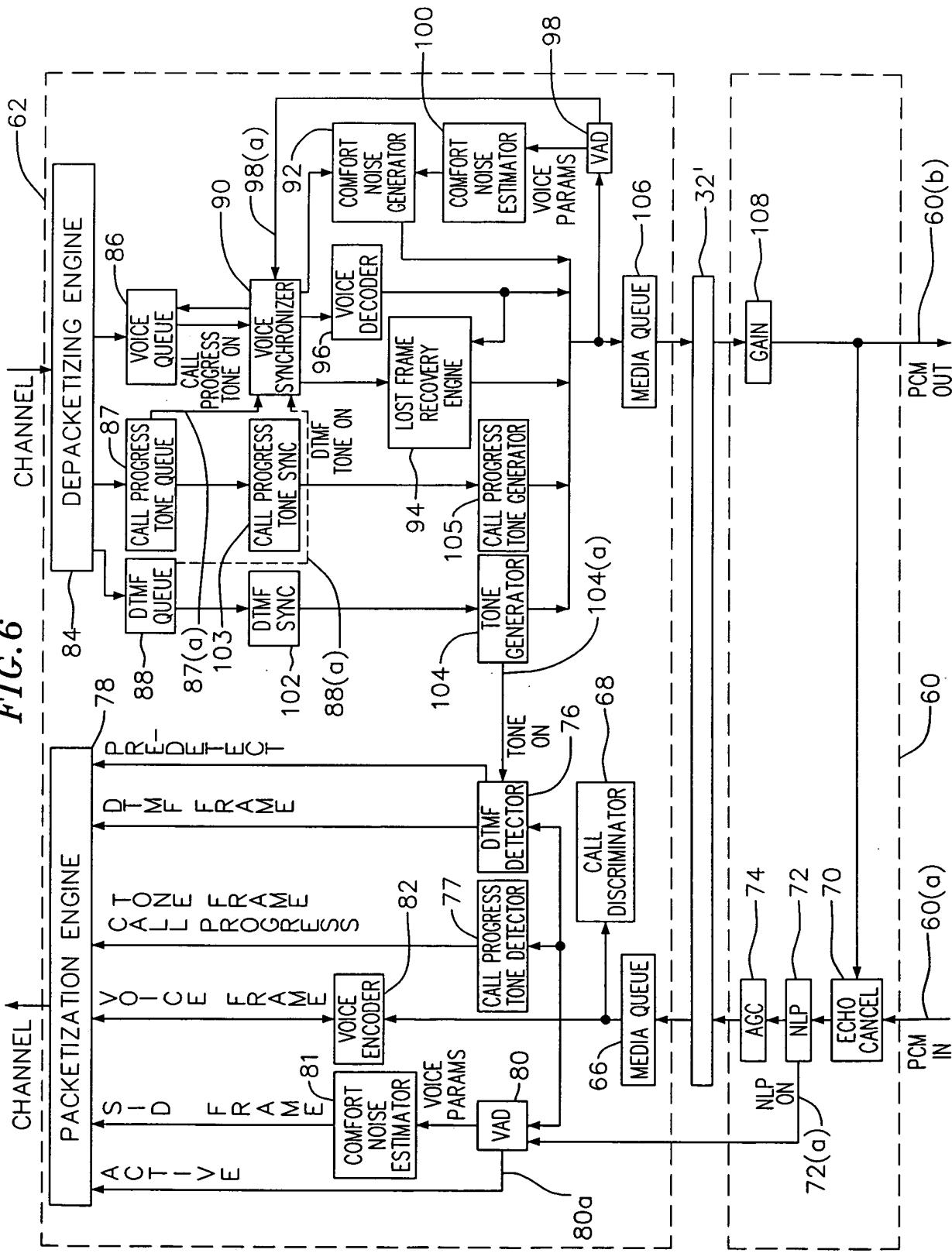


FIG. 7

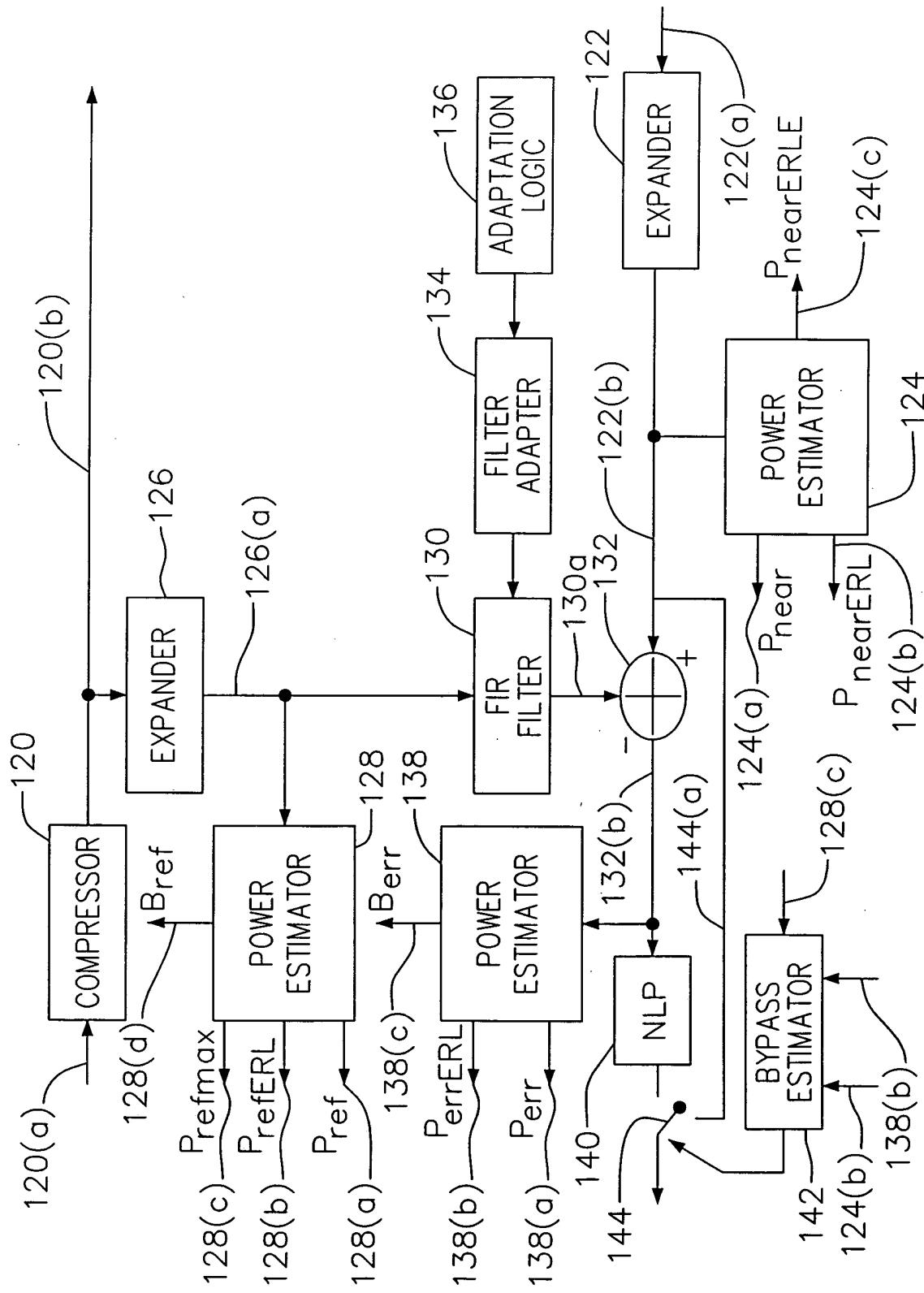


FIG. 8A

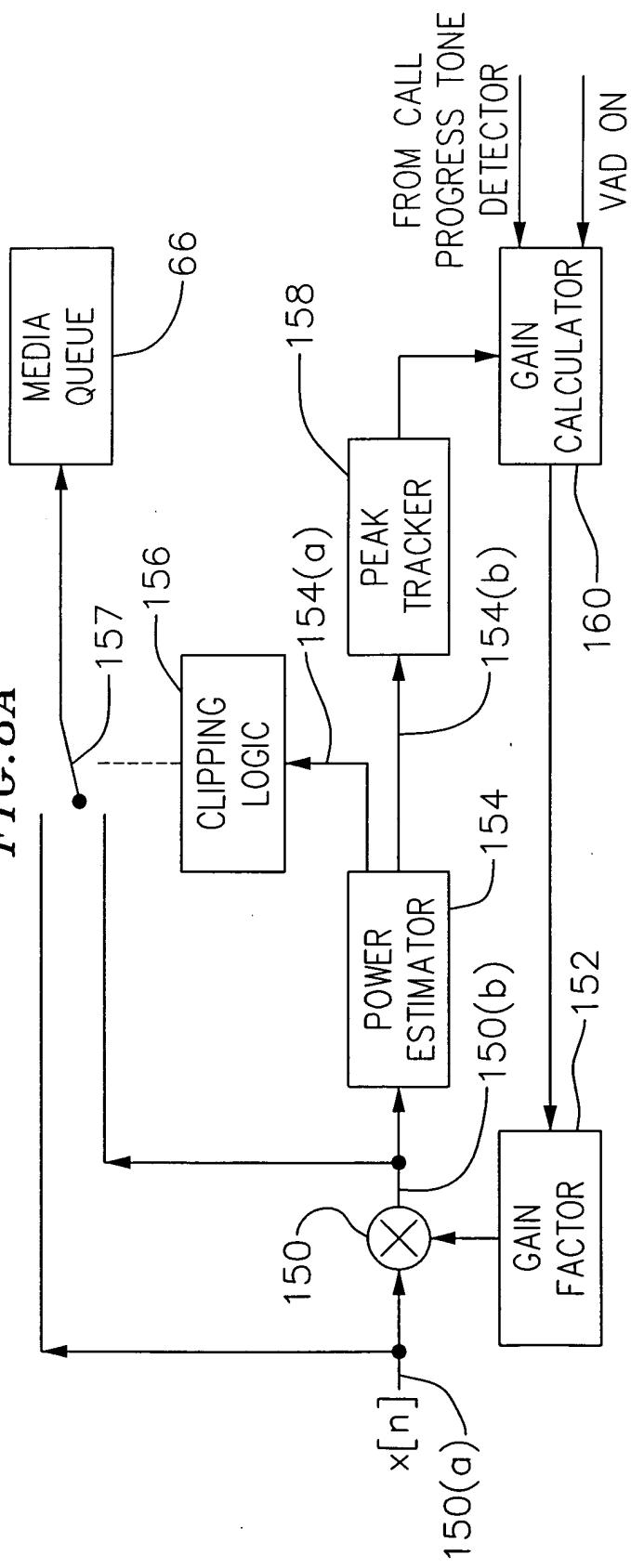


FIG. 8B

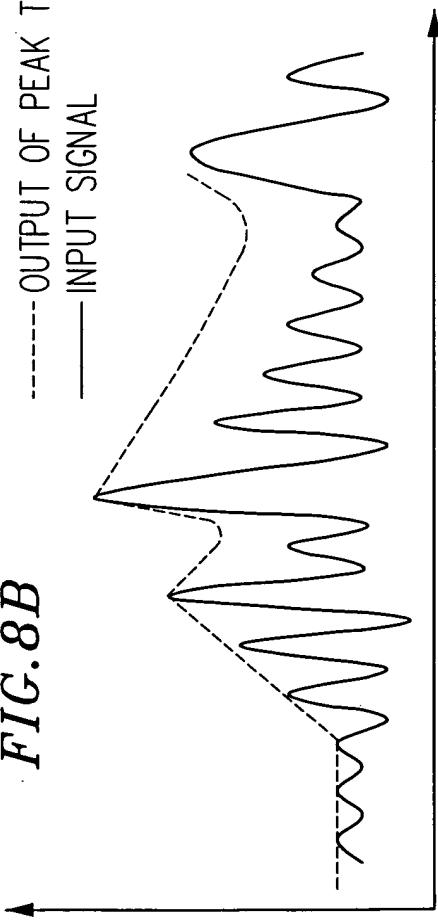


FIG. 9

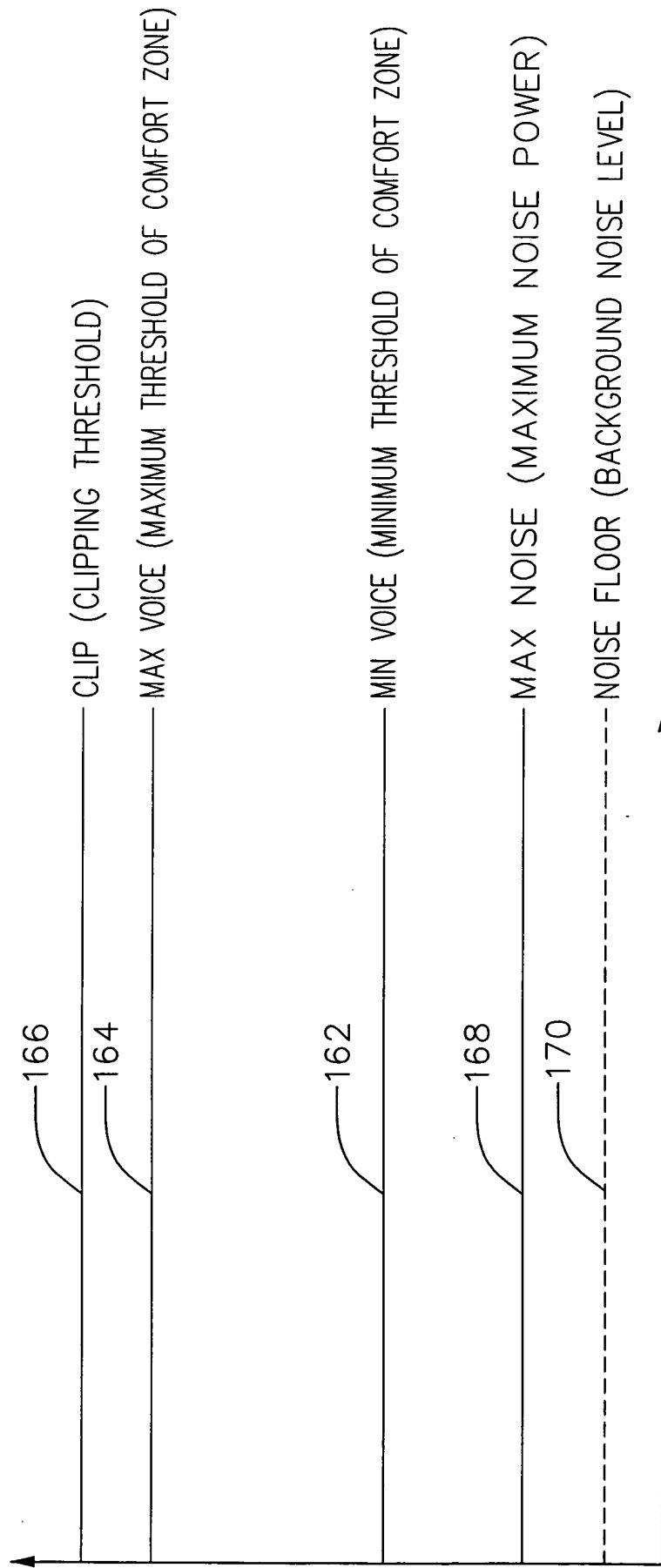


FIG. 10

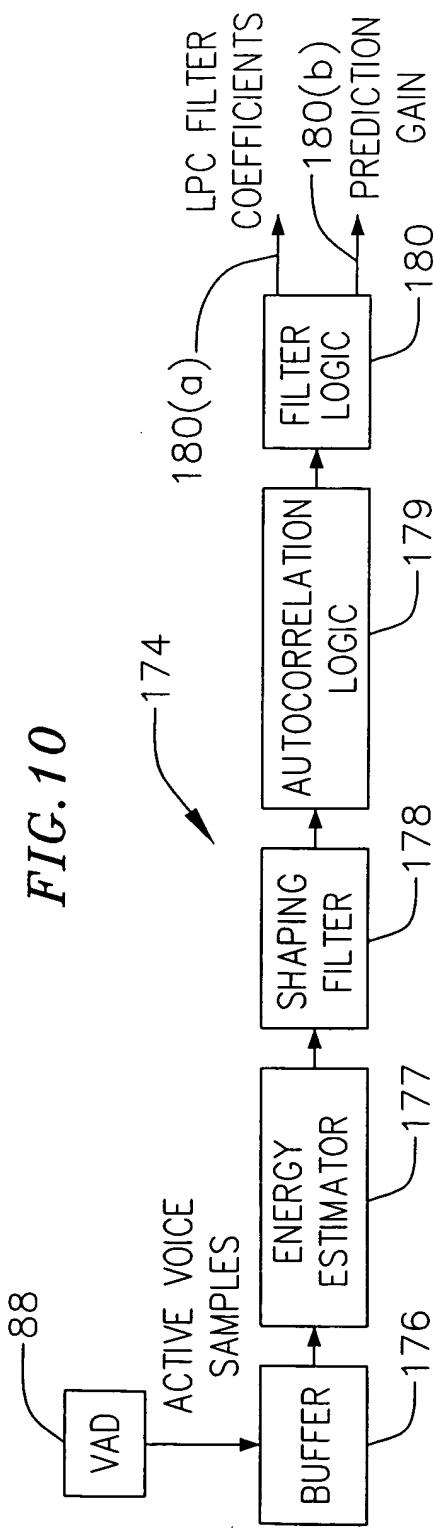


FIG. 11

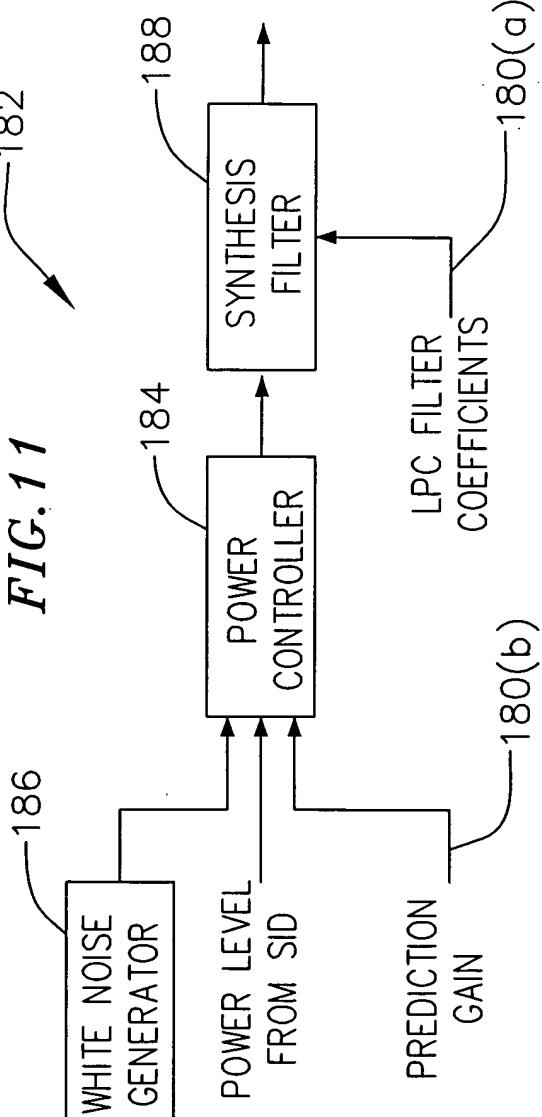


FIG. 12

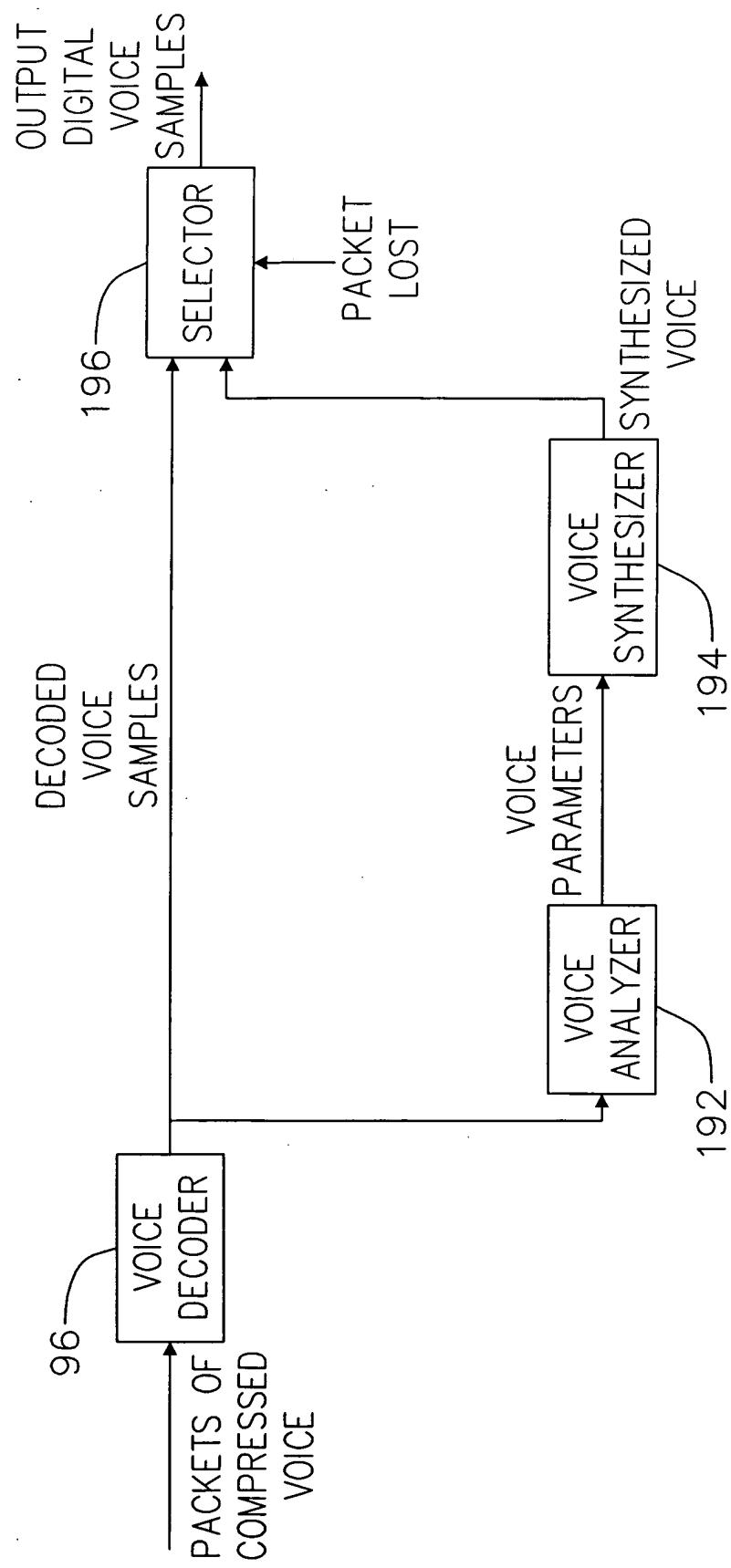


FIG. 13A

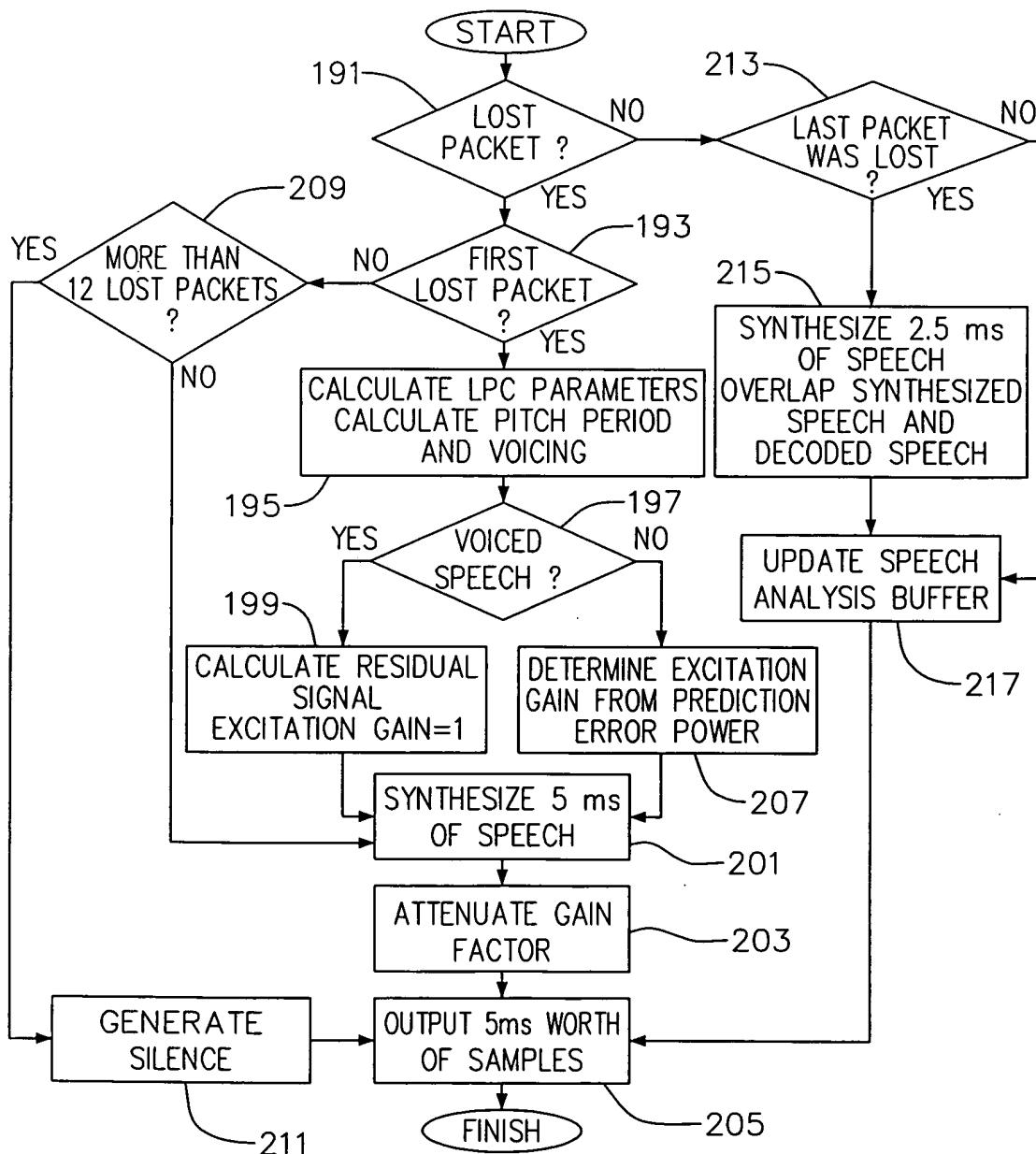


FIG. 13B

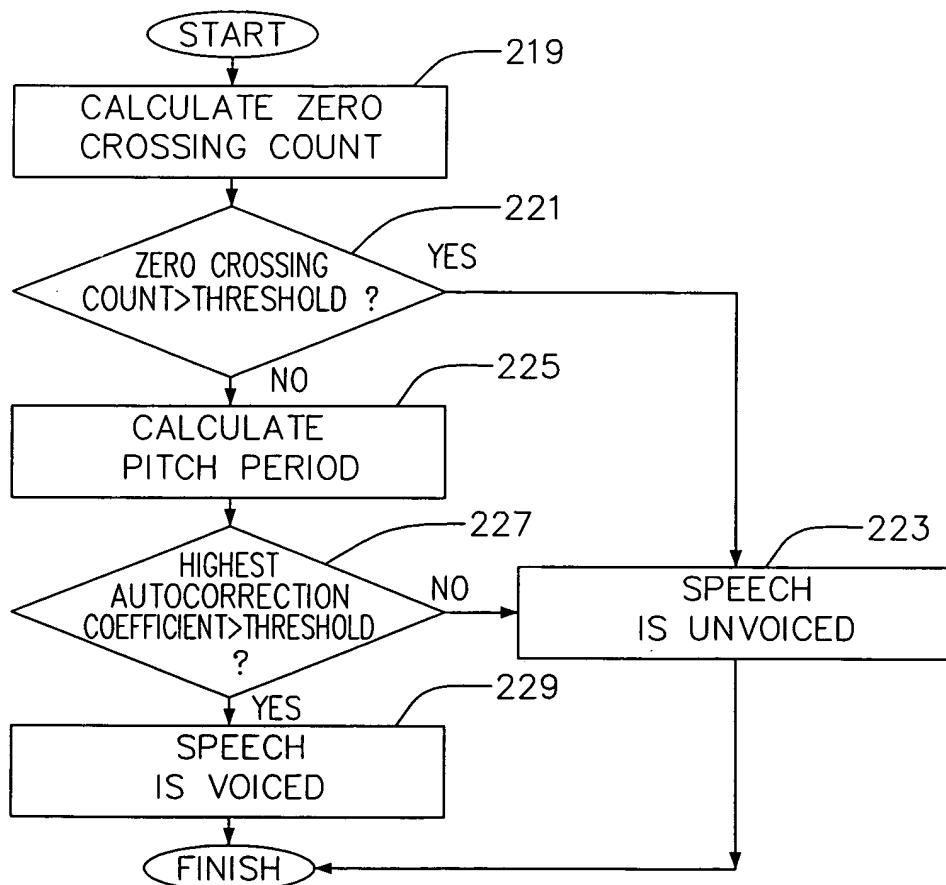


FIG. 13C

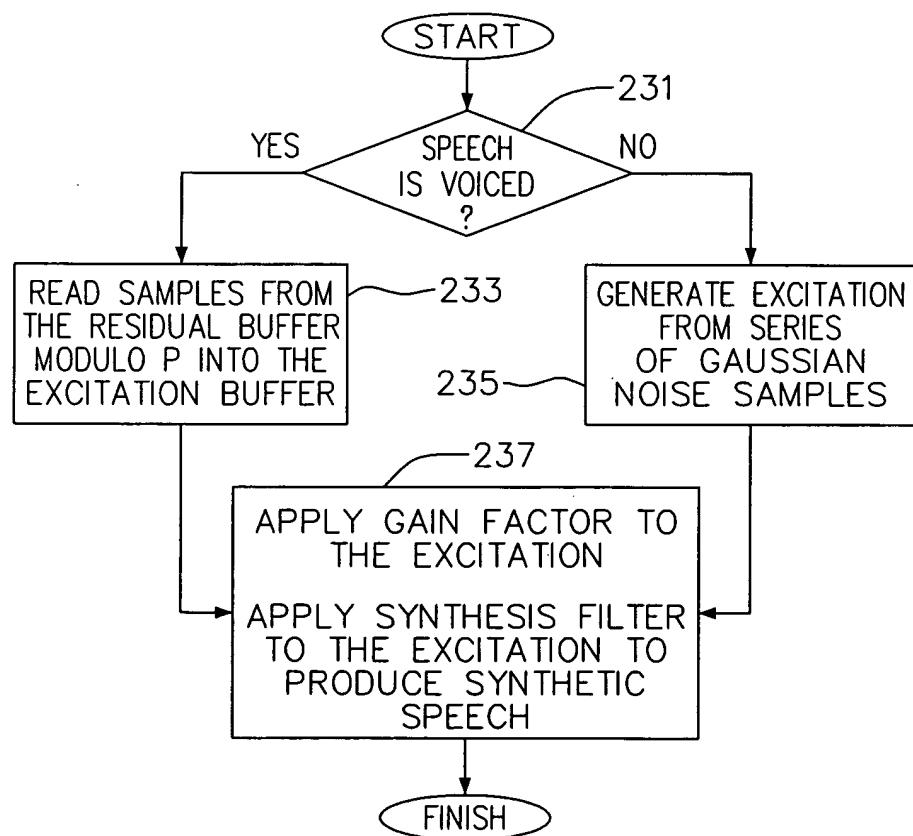


FIG. 14

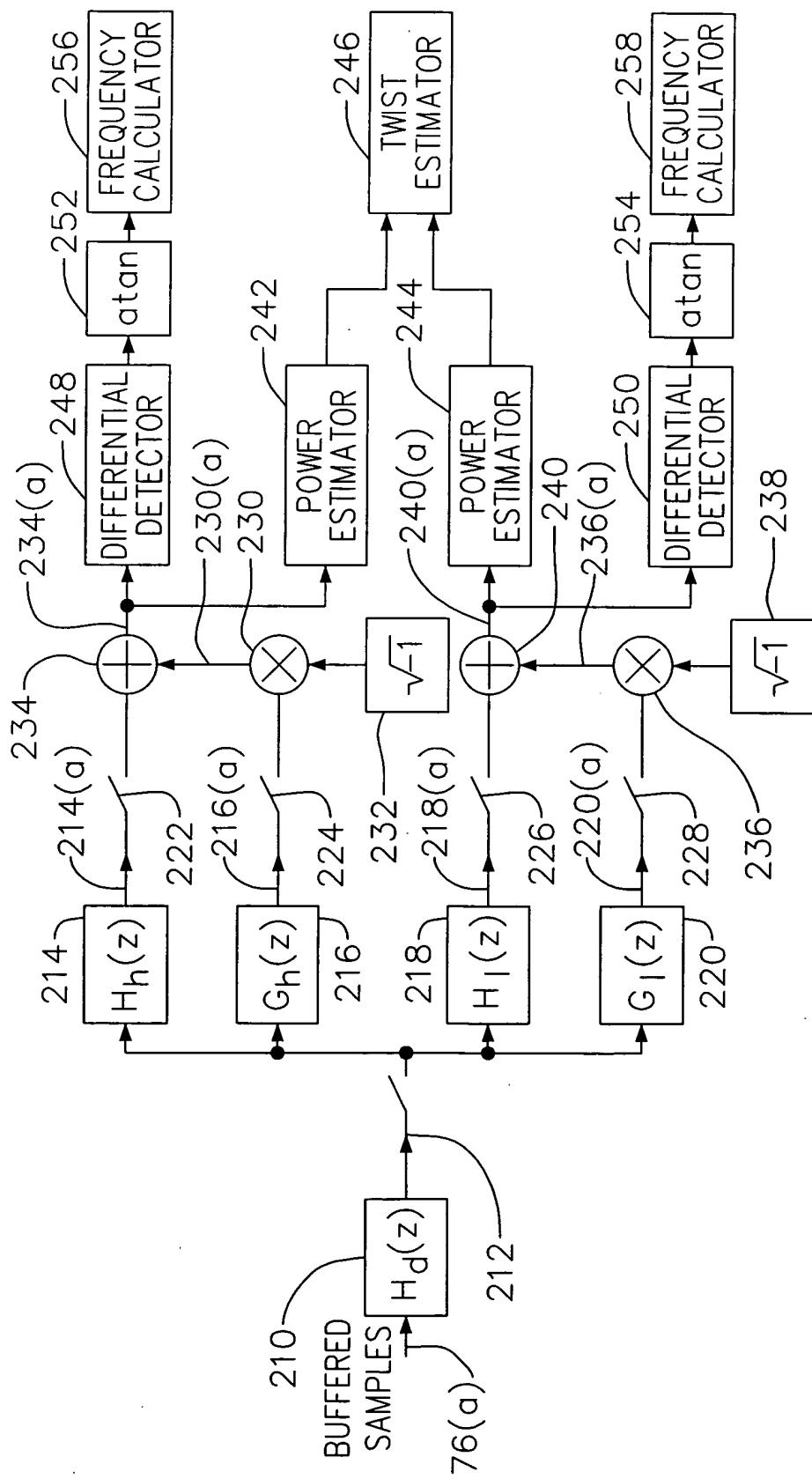


FIG. 14A

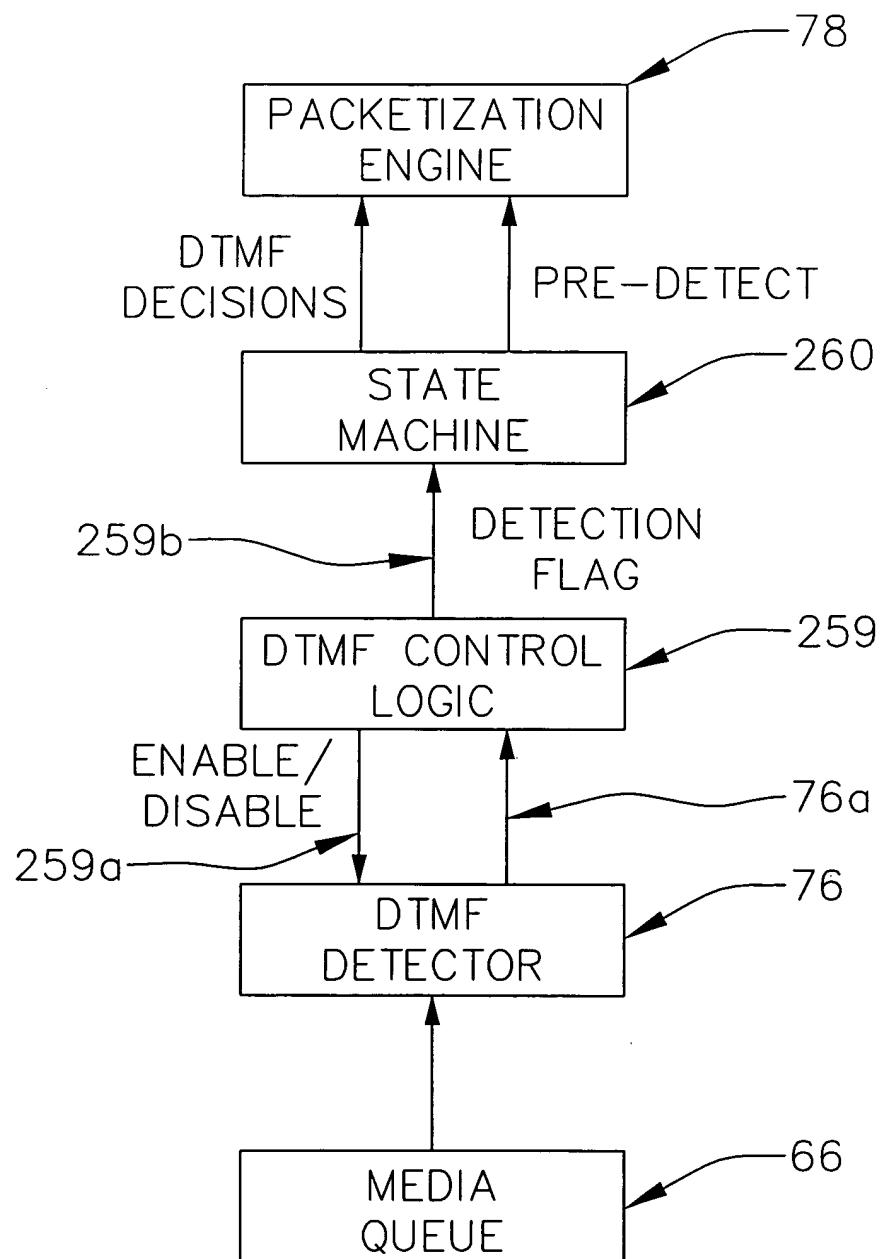


FIG. 15

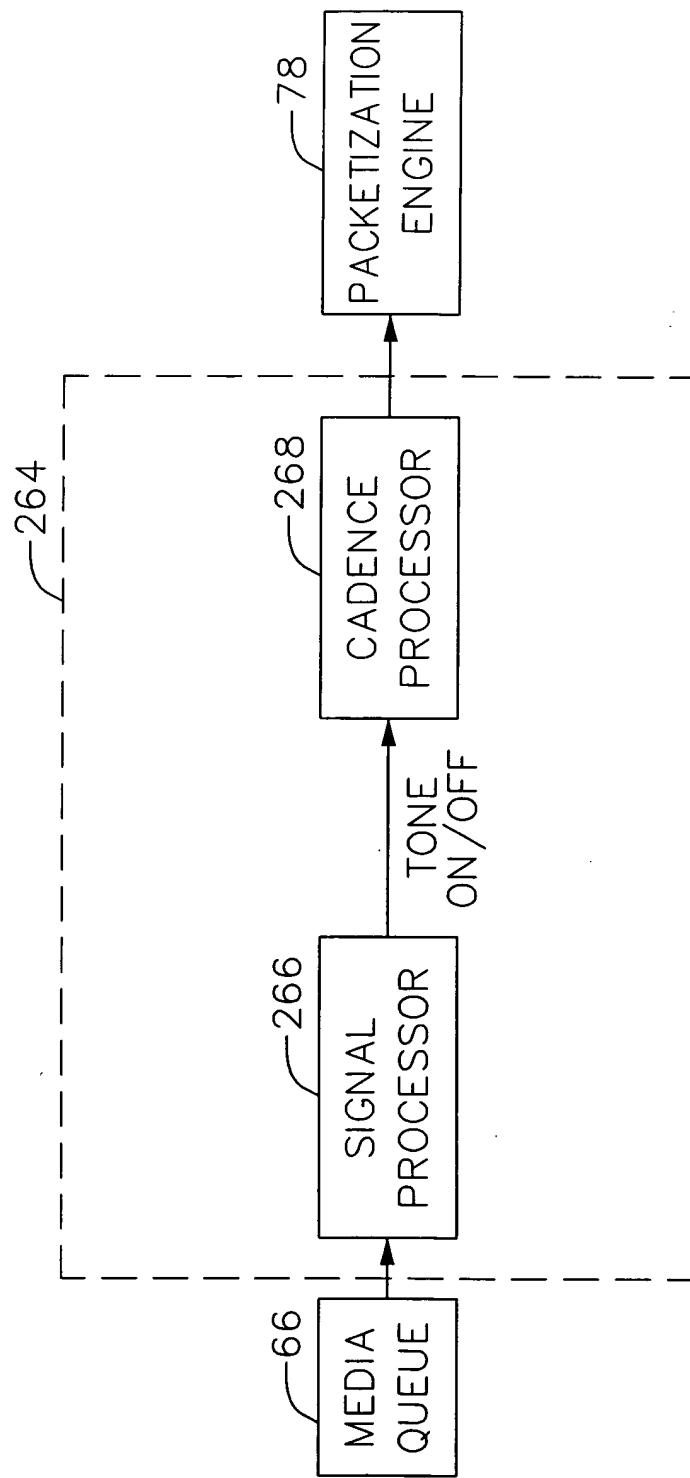


FIG. 16

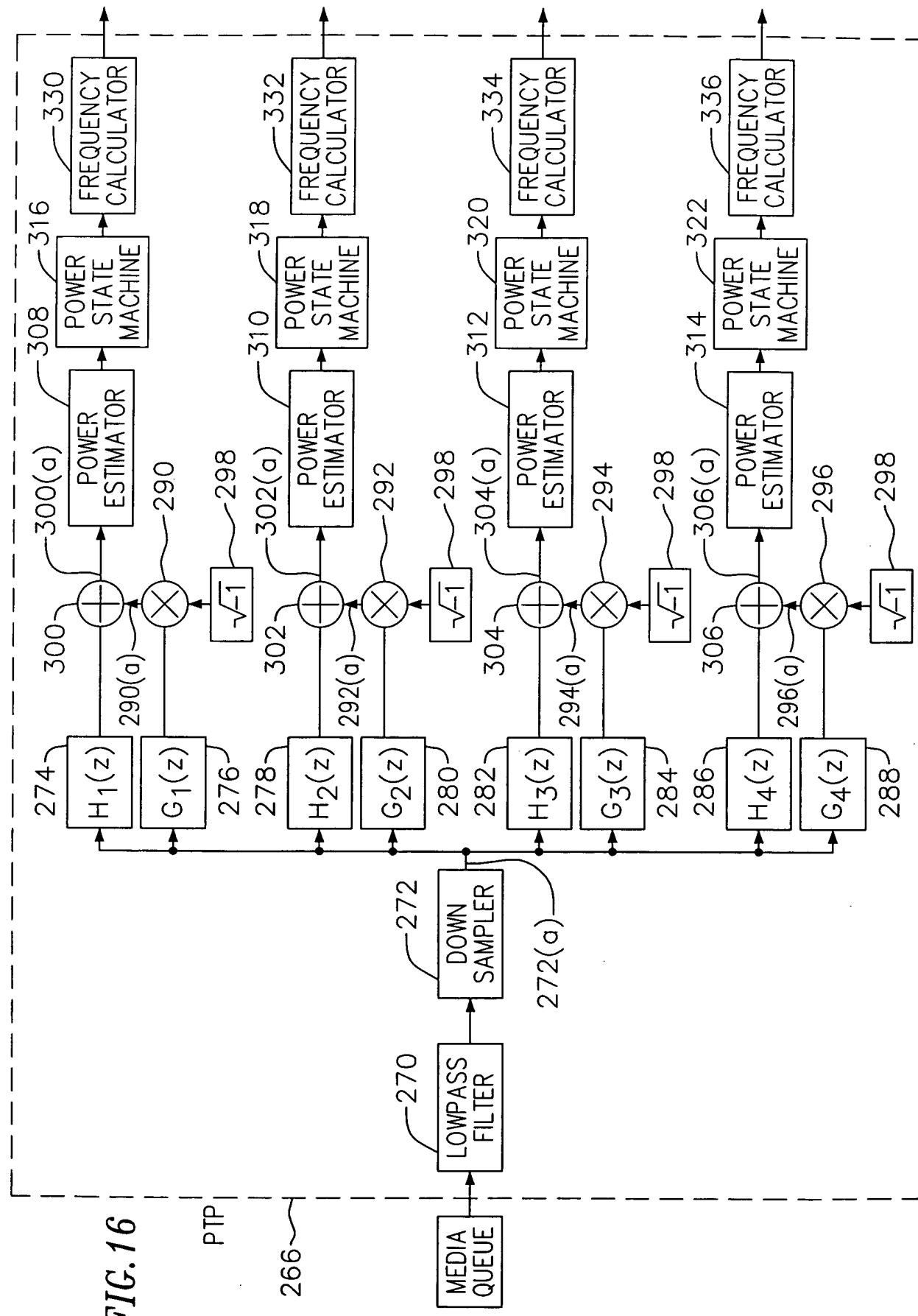


FIG. 17

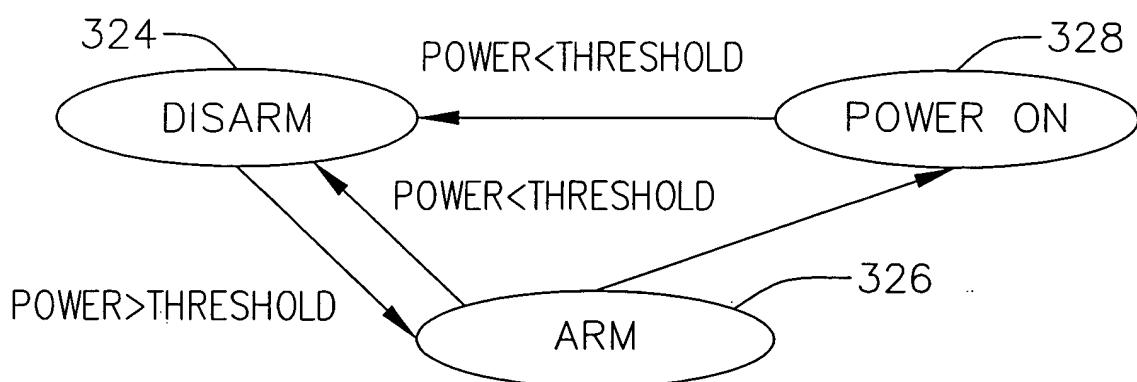


FIG. 18

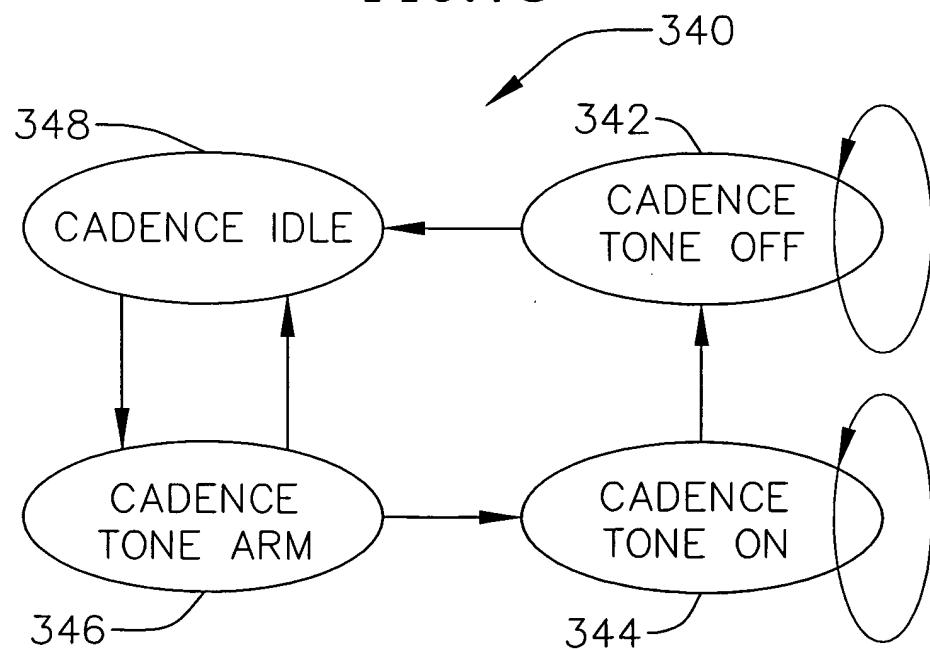


FIG. 18A

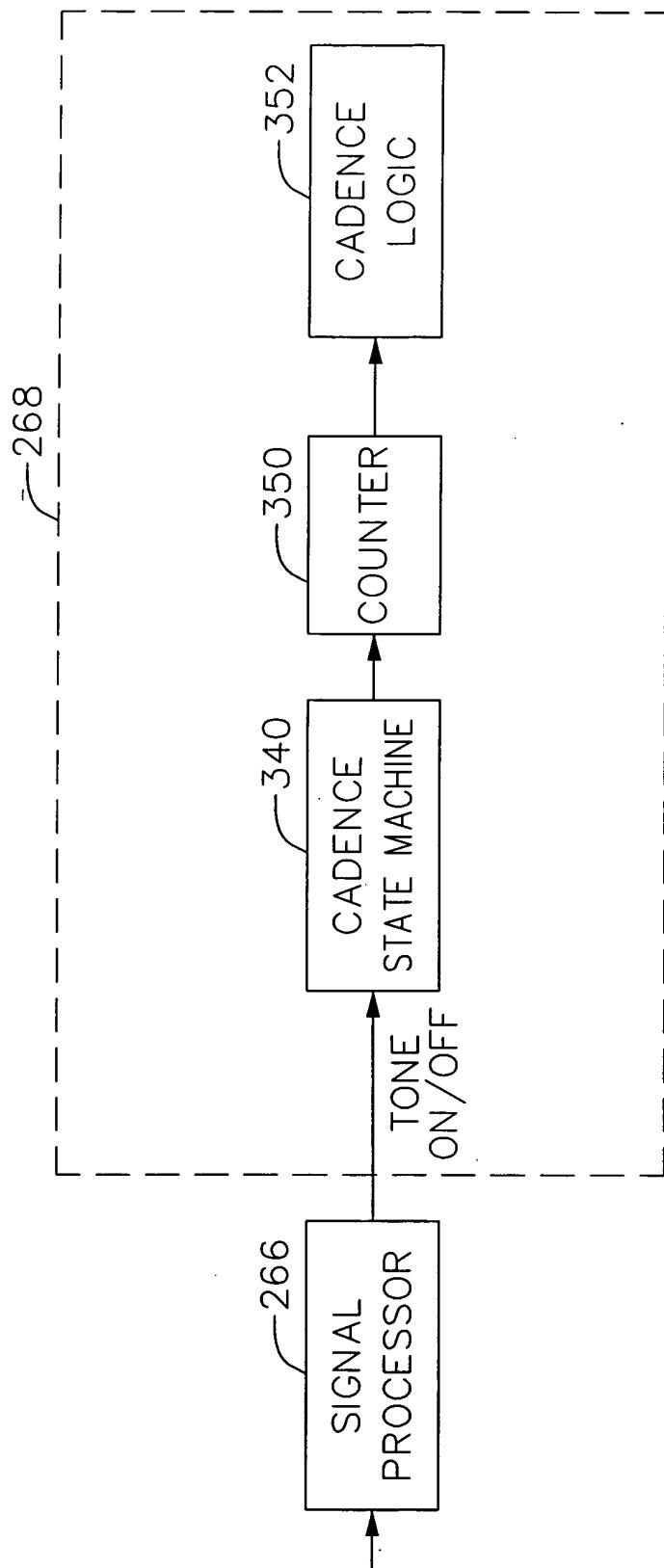


FIG. 19

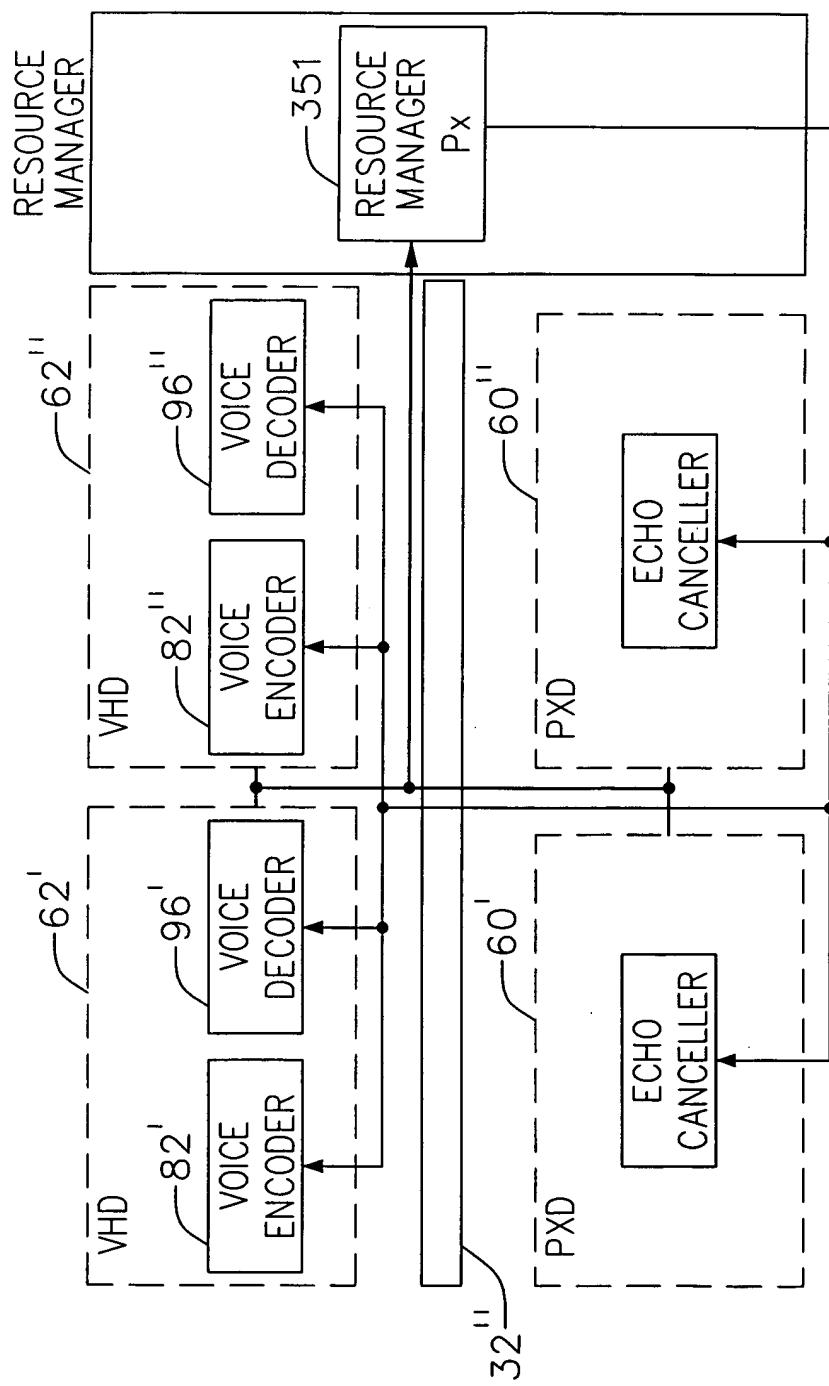


FIG. 20

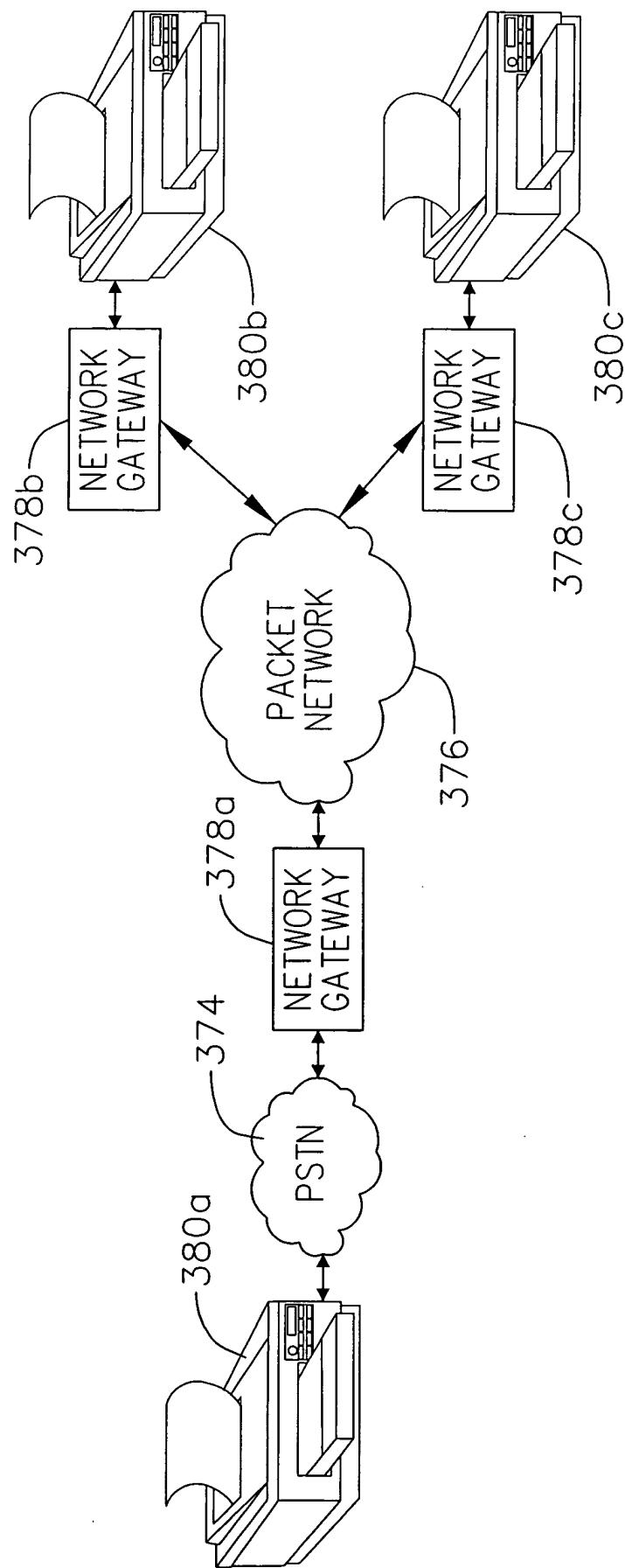


FIG. 21

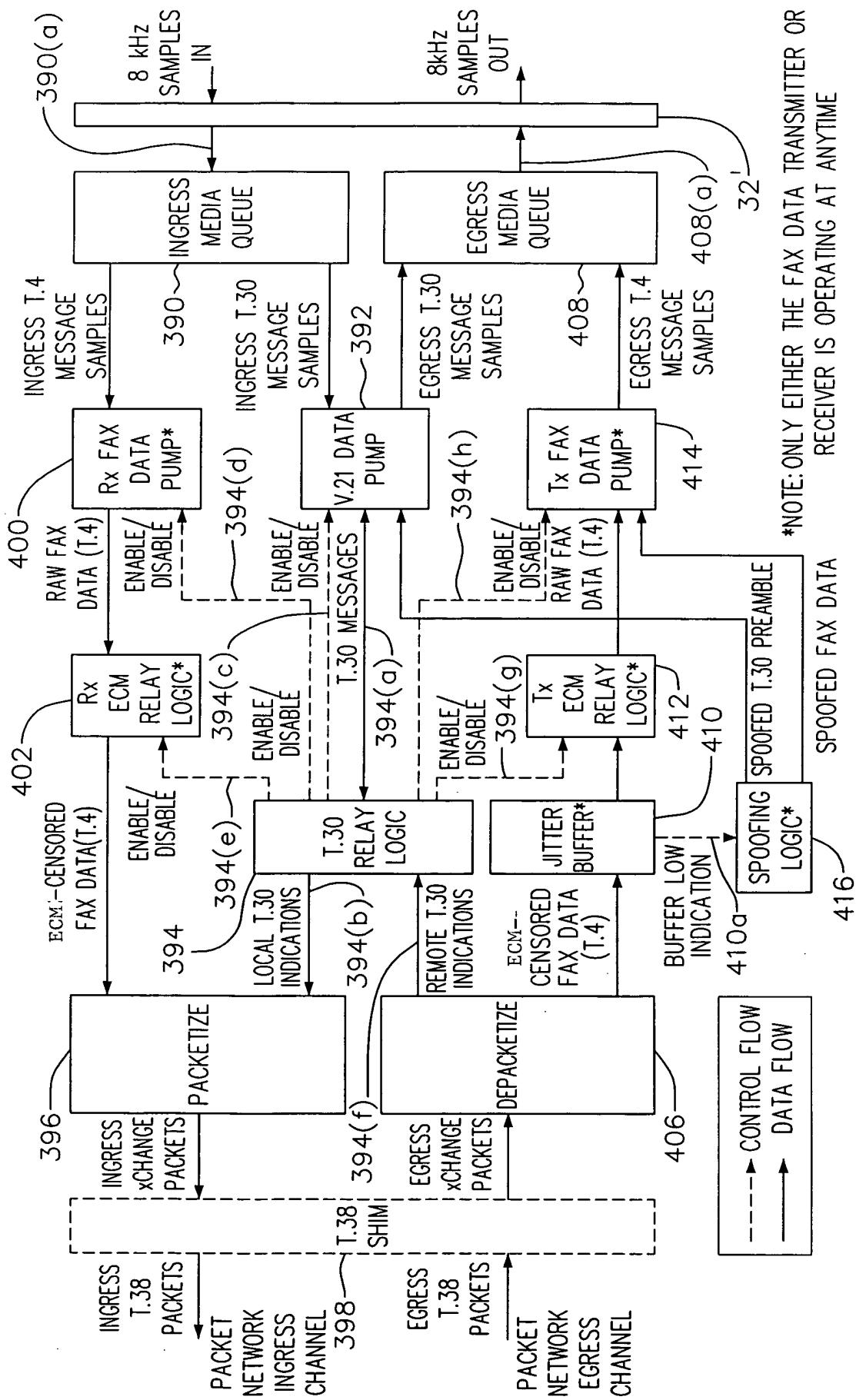


FIG. 22

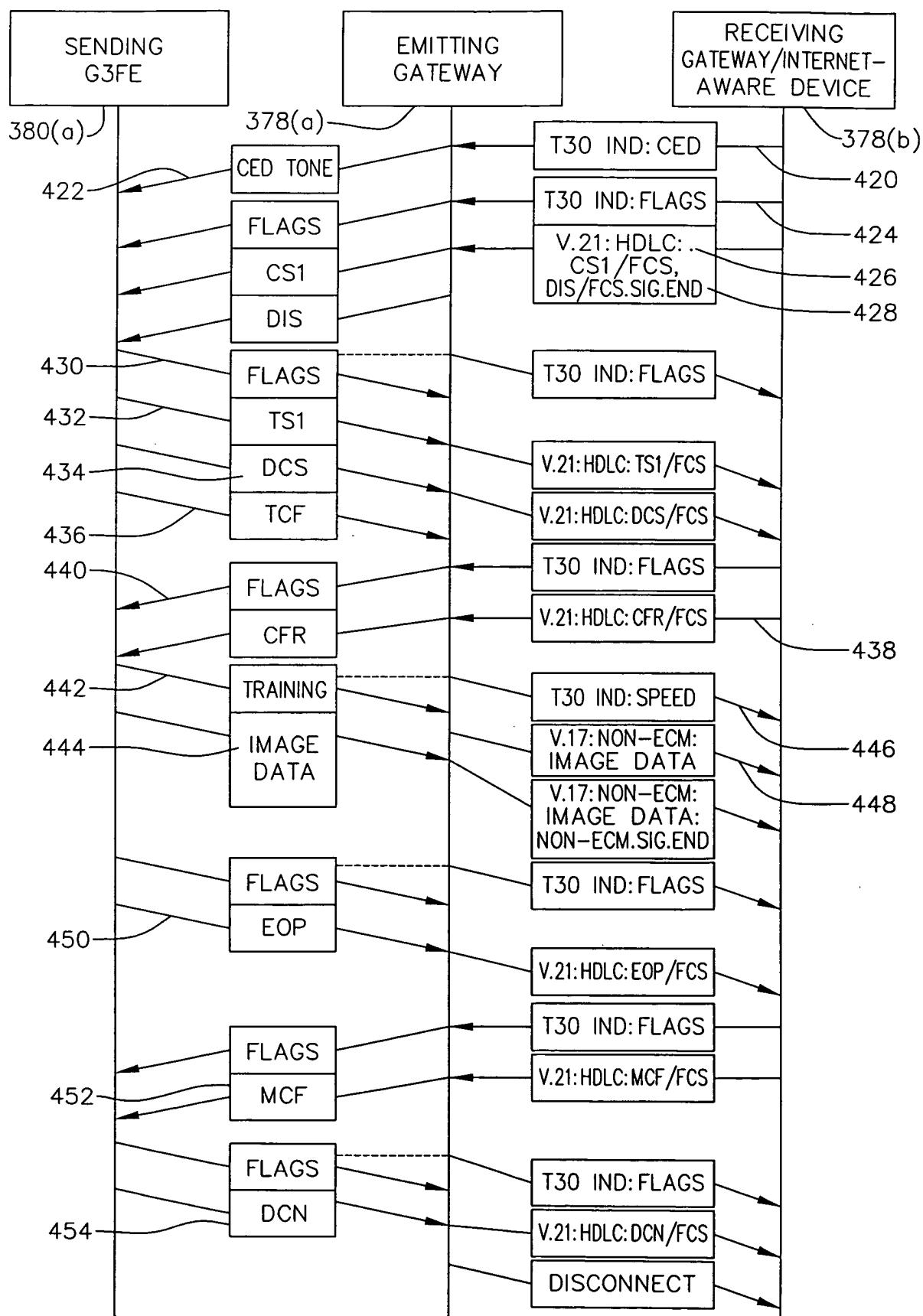


FIG.23

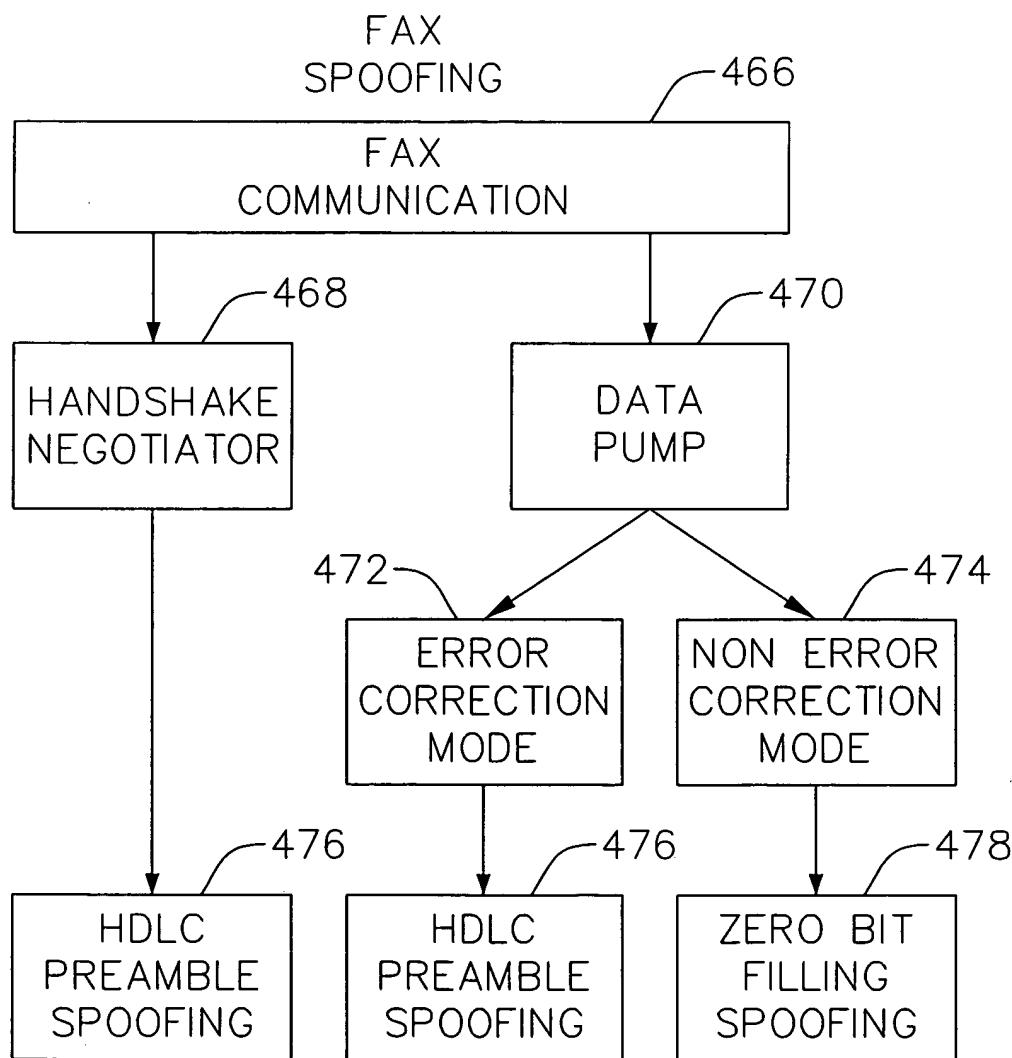


FIG. 24

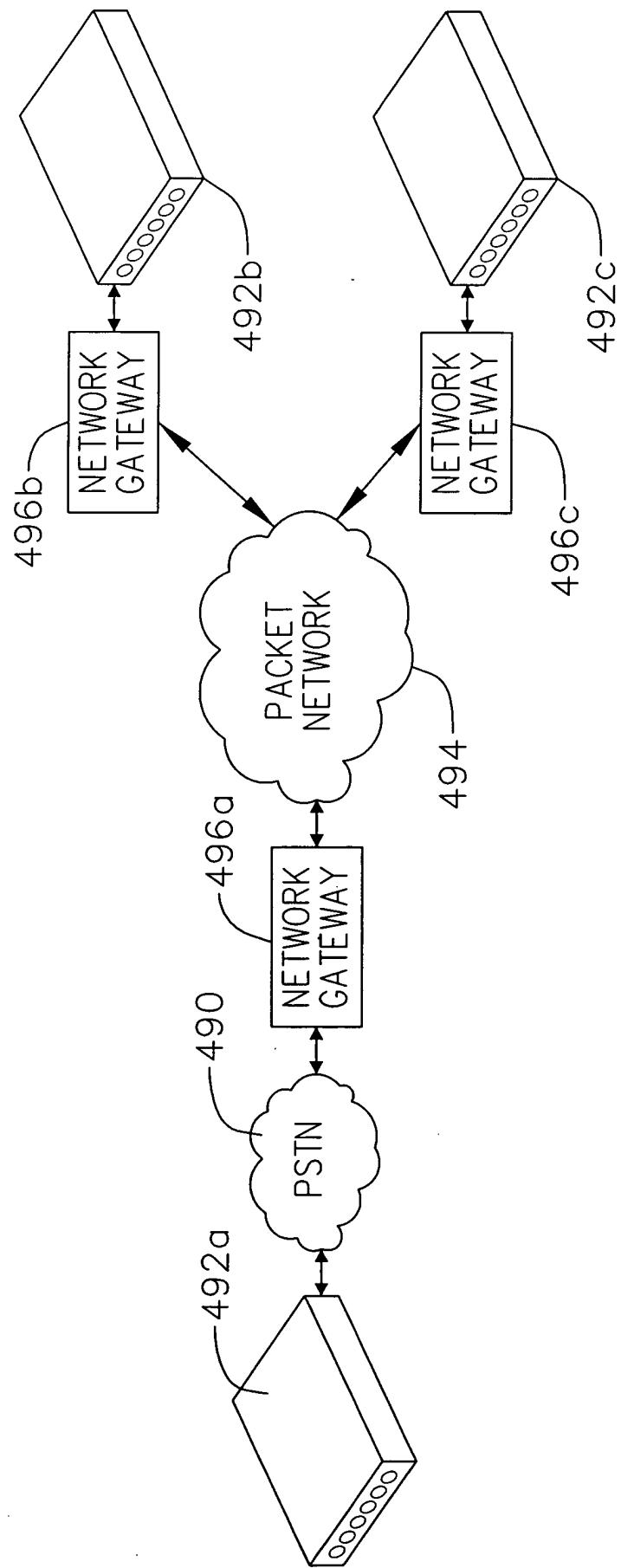


FIG. 25

This block diagram illustrates the internal architecture of a communication system, specifically a V.42bis interface. The diagram is organized into several functional blocks and their interactions:

- Call Negotiator:** Handles initial connection setup, indicated by the **CALL NEGOTIATOR** block.
- Rate Negotiator:** Manages data rates, indicated by the **RATE NEGOTIATOR** block.
- Error Control Logic:** Manages error control mode negotiation, indicated by the **ERROR CONTROL MODE NEGOTIATION LOGIC** block.
- PACKETIZE and DE-PACKETIZE:** Handles the conversion between data and packet formats, indicated by the **PACKETIZE** and **DE-PACKETIZE** blocks.
- Buffering:** Manages data buffering, indicated by the **JITTER BUFFER** block.
- spoofing logic:** Manages spoofed data, indicated by the **spoofing logic** block.
- Media Queueing:** Manages ingress and egress media queues, indicated by the **INGRESS MEDIA QUEUE** and **EGRESS MEDIA QUEUE** blocks.
- Data Pumping:** Manages data pumping, indicated by the **DATA PUMP Rx** and **DATA PUMP Tx** blocks.
- ANS/AC Indications:** Manages local and remote ANS/AC indications, indicated by the **LOCAL ANS, AA, AC INDICATIONS** and **REMOTE ANS(am),AA,AC INDICATIONS** blocks.
- Control Flow:** Manages control flow, indicated by the **CONTROL FLOW** block.

The data flow is indicated by solid lines, while control and indication signals are shown as dashed lines. Key data paths include:

- 502(e)**: Local ANS(am), AA, AC indications to the Call Negotiator.
- 502(c)**: Ingress data to the Call Negotiator.
- 502(b)**: Call Negotiator to the Call Negotiator.
- 502(d)**: Egress samples (ANSam, V.8 menus) from the Call Negotiator.
- 506**: Local V.14/V.42 indication to the Call Negotiator.
- 508**: Buffer low indication to the Jitter Buffer.
- 510(a)**: End-to-end clock synchronization logic to the Jitter Buffer.
- 518**: Egress data from the Jitter Buffer.
- 520**: Remote rate codes to the Rate Negotiator.
- 520(c)**: Remote V.14/V.42 indication to the Rate Negotiator.
- 520(a)**: Negotiation messages to the Error Control Logic.
- 524(a)**: Local V.14/V.42 indication to the Error Control Logic.
- 524(b)**: Local rate codes to the Error Control Logic.
- 524(c)**: Remote rate codes to the Error Control Logic.
- 524(d)**: Local ANS, AA, AC indications to the Error Control Logic.
- 524(e)**: Spoofed data to the Jitter Buffer.
- 500**: Ingress samples (ANSam, V.8 menus) to the Ingress Media Queue.
- 502(d)**: Egress samples (ANSam, V.8 menus) from the Egress Media Queue.
- 504**: Ingress samples (data) to the Data Pump Rx.
- 522**: Data pump state machine to the Data Pump Rx.
- 522**: Data pump state machine to the Data Pump Tx.
- 514**: Egress samples (data) from the Data Pump Tx.
- 512**: Control flow to the Control Flow block.
- 512**: Data flow to the Control Flow block.

FIG. 26

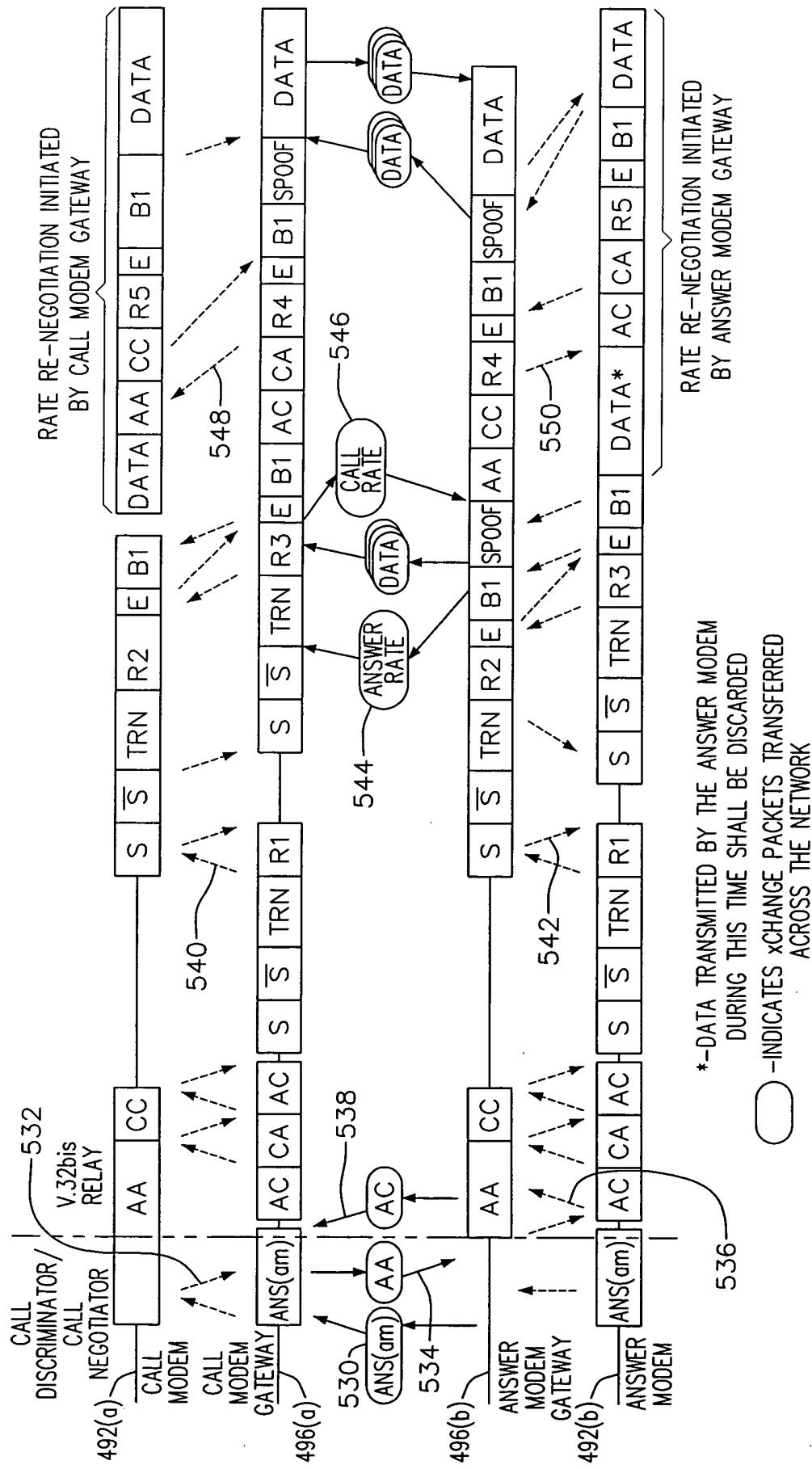


FIG. 27

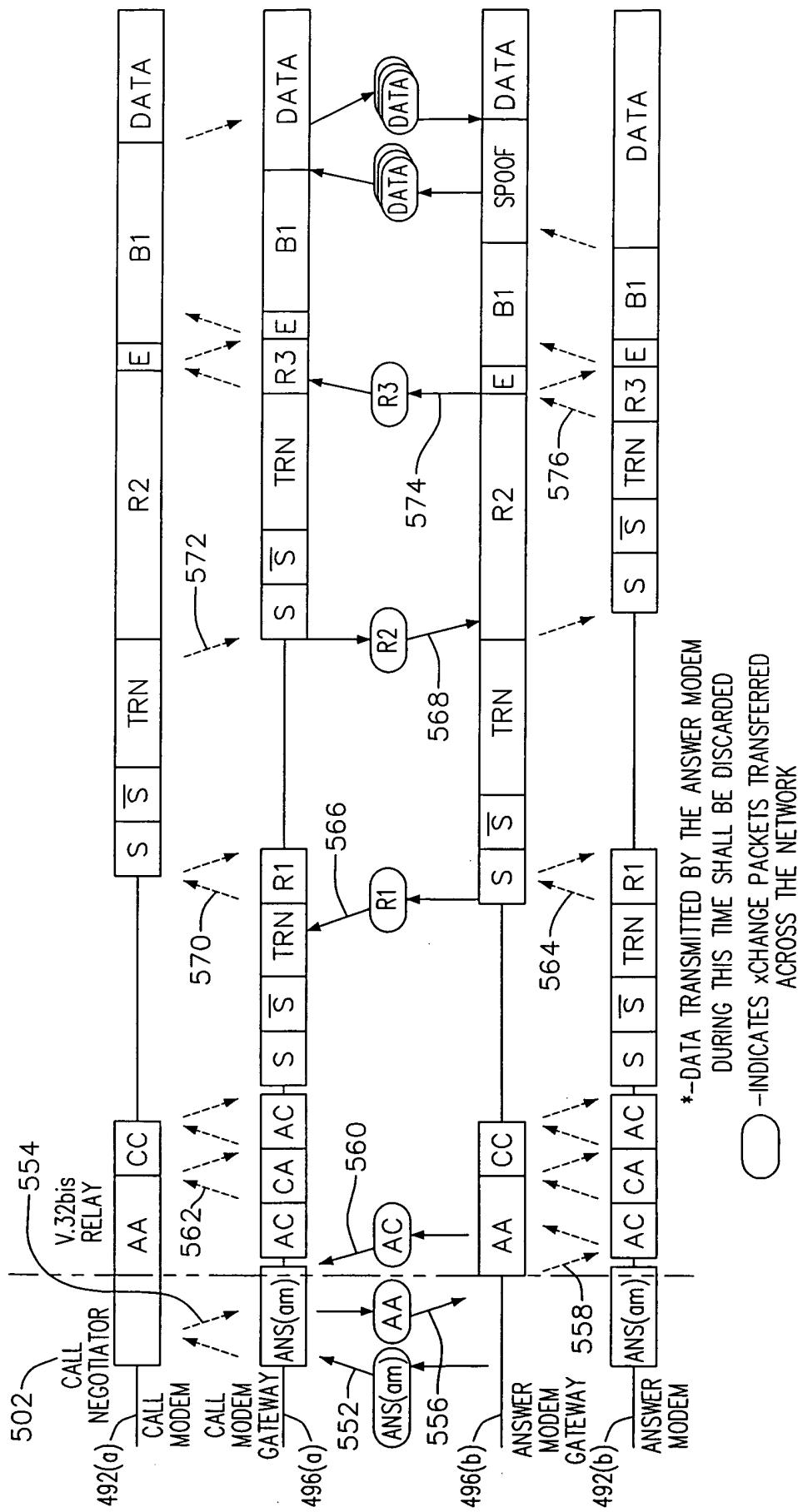


FIG. 28

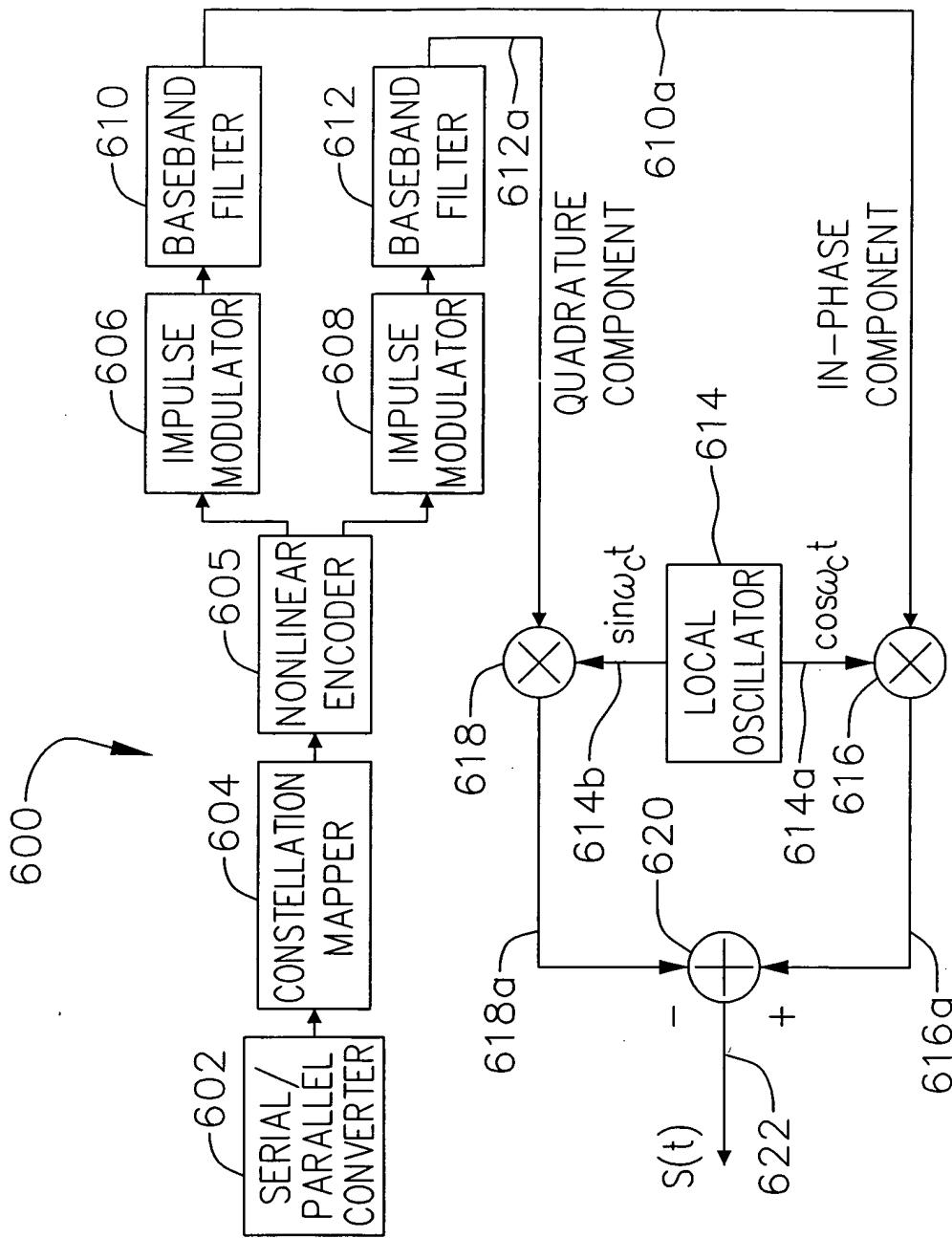


FIG. 29

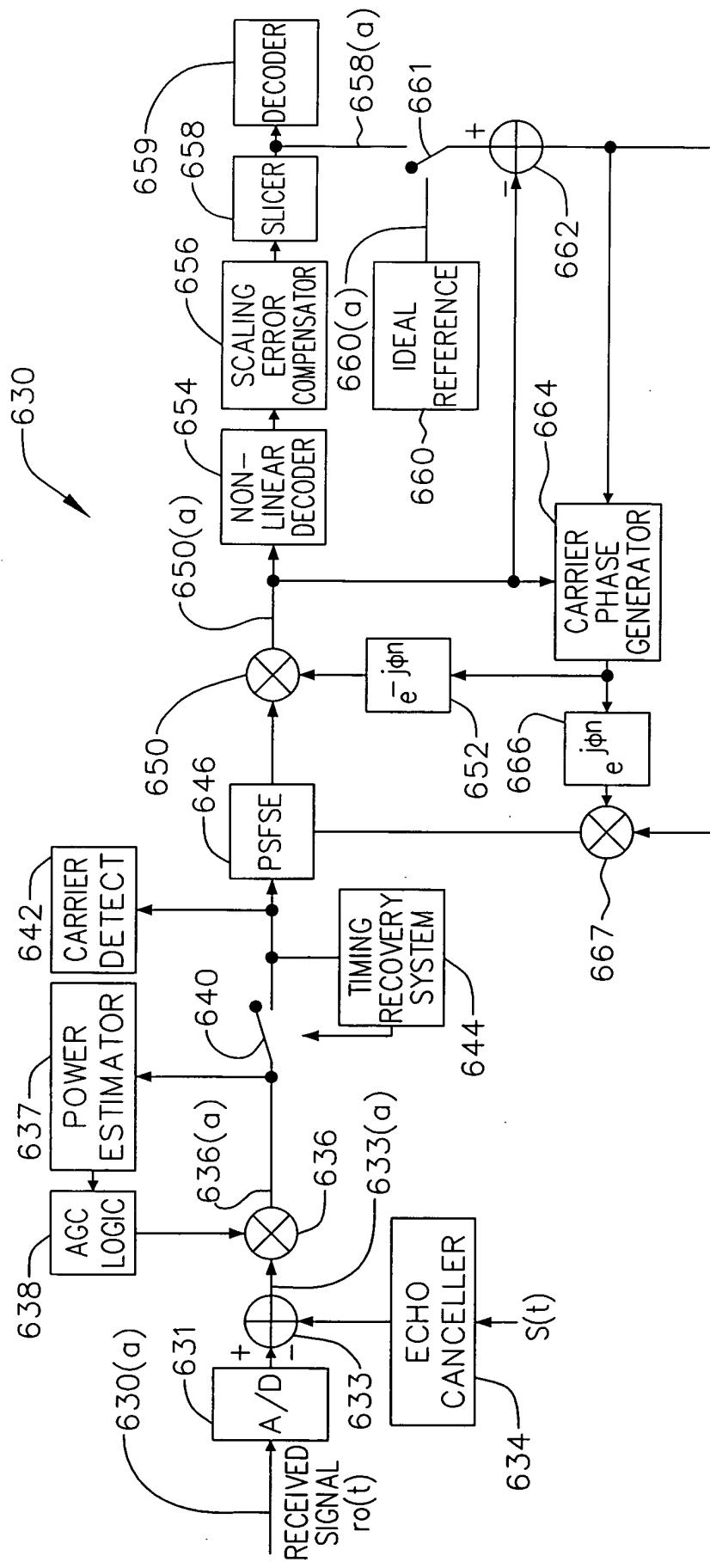


FIG. 30

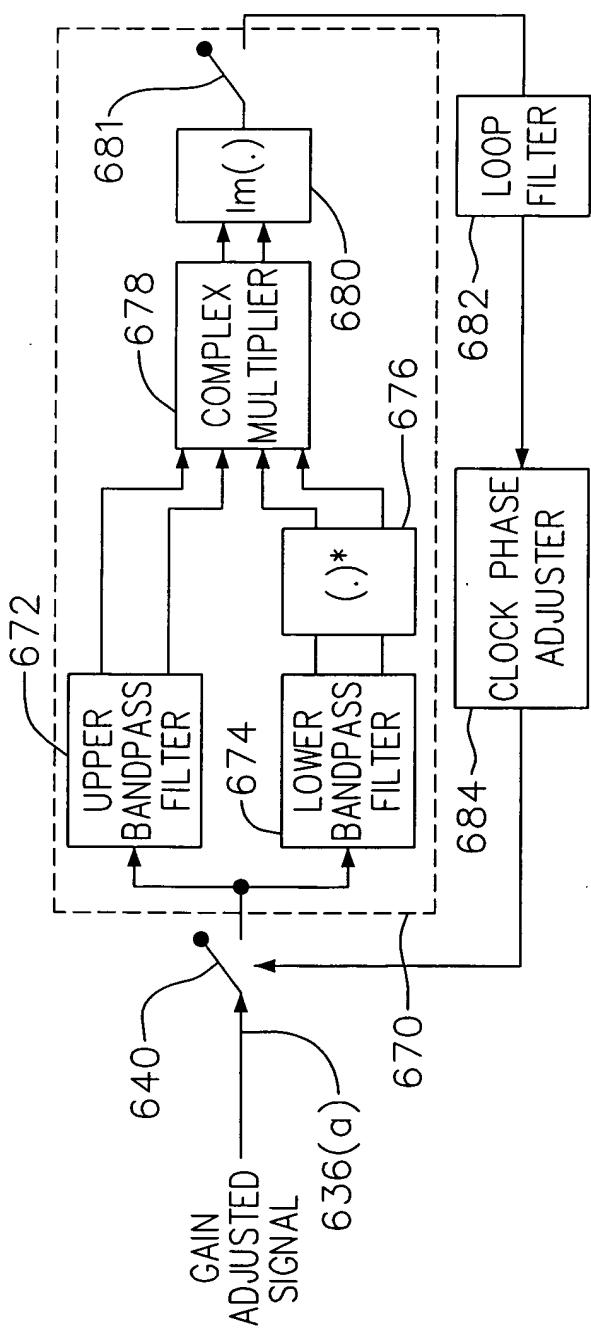
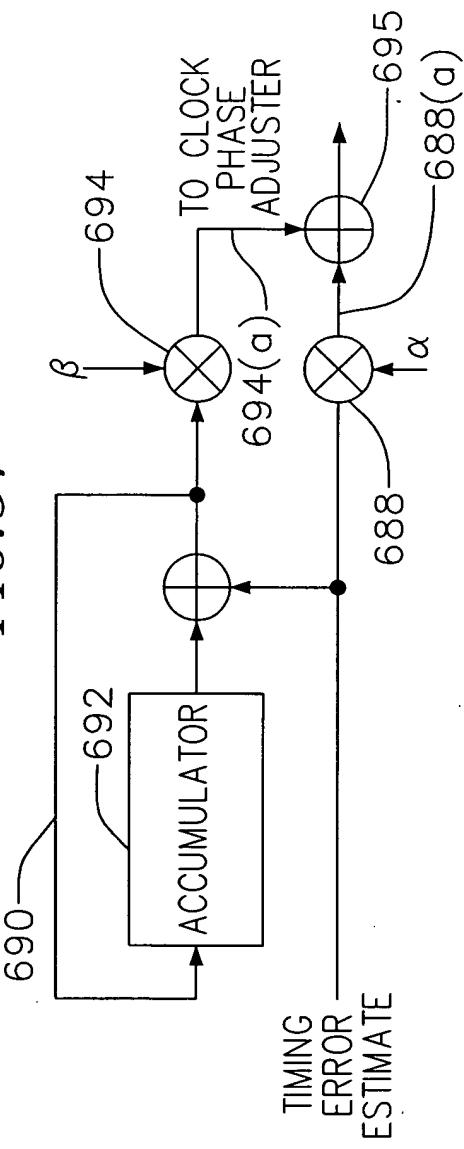


FIG. 31



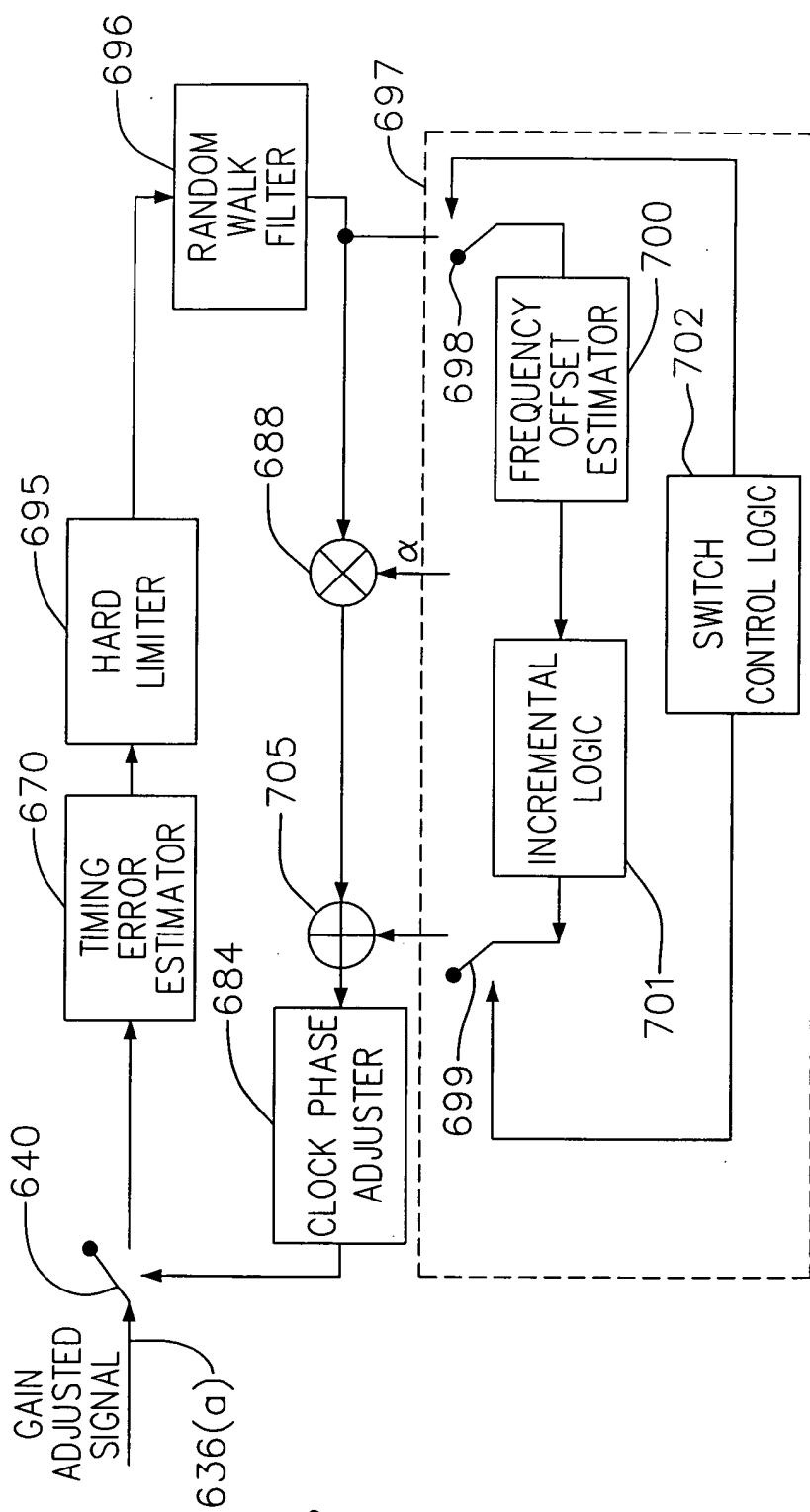
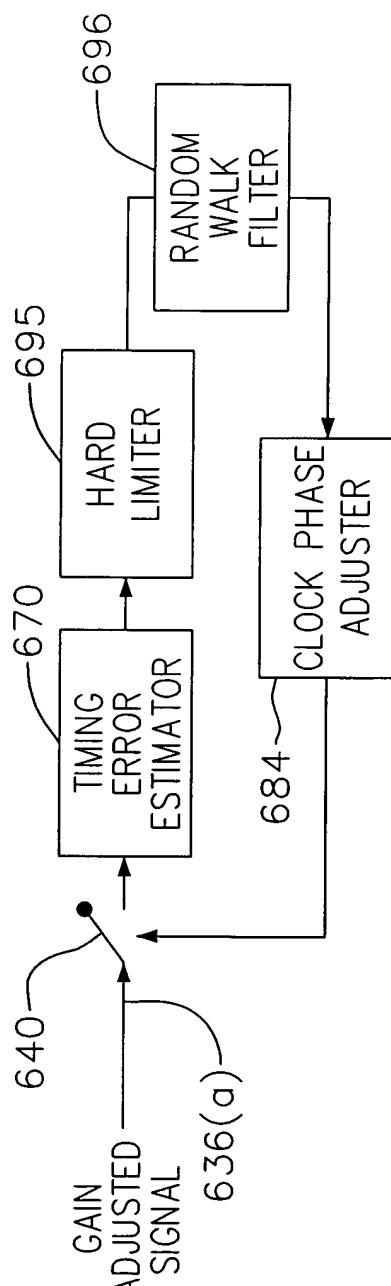
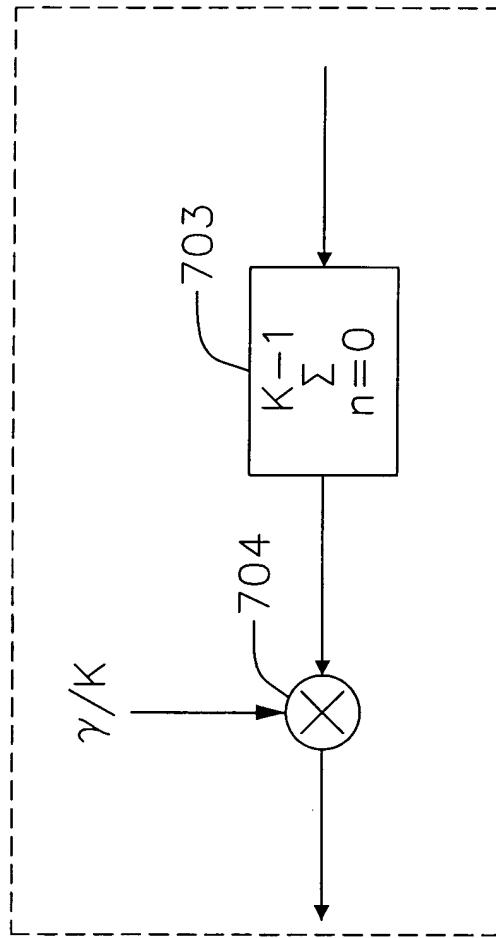


FIG. 34

700



TIMING FREQUENCY
OFFSET ESTIMATE

FIG. 35

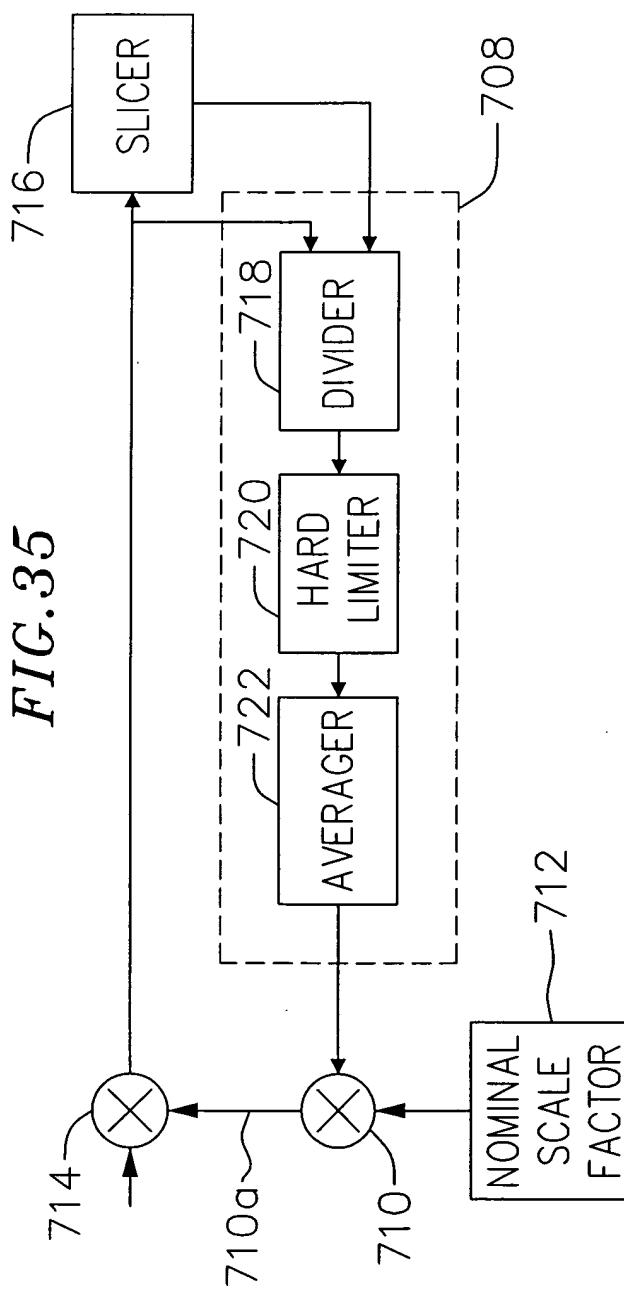


FIG. 36

